

*Division of Technical and  
Adult Education  
1966-1968*



# **Southern Illinois University Bulletin**



## OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

### TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

### TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

### TO FORWARD IDEAS AND IDEALS

*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

### TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*



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# **Southern Illinois University Bulletin**

*SOUTHERN ILLINOIS UNIVERSITY BULLETIN*

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## *This Issue . . . . .*

of the *Southern Illinois University Bulletin* covers in detail questions concerning the Division of Technical and Adult Education. *This issue supersedes Volume 6, No. 2.*

THE FOLLOWING issues of the *Southern Illinois University Bulletin* may be obtained free from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

Schedule of Classes. Please specify *quarter* (fall, winter, spring, or summer) and *campus* (Carbondale or Edwardsville).

Guidelines for Prospective Students.

General Studies Catalog.

Graduate Catalog.

Division of Technical and Adult Education.

Financial Assistance.

University Extension Services.

Undergraduate Catalog. The catalog is available for examination in high school guidance offices and libraries throughout Illinois and in some other states. Copies will be furnished free to educational institutions upon request and to new students upon matriculation. The catalog may be purchased at the University Bookstore for \$1; mail orders should be sent to Central Publications and must include remittance payable to Southern Illinois University.



# Contents



Board of Trustees; Officers of Instruction .....	v
DIVISION OF TECHNICAL AND ADULT EDUCATION .....	1
VOCATIONAL-TECHNICAL INSTITUTE (Carbondale Campus) .....	1
Degrees and Certificates .....	2
Student Organizations and Activities .....	2
Admission .....	3
Tuition and Fees .....	4
Advisement .....	4
Registration .....	4
Academic Load .....	5
Grading System .....	5
Scholastic Probation .....	6
Proficiency Examinations .....	7
Honors Day .....	8
Special Services .....	8
Housing .....	9
Student Work Program .....	9
Student Financial Assistance .....	9
Advisory Committees .....	10
General Studies Requirements .....	13
Associate in Art Degree Programs .....	14
Commercial Art .....	14
Dental Hygiene .....	15
Associate in Business Degree Programs .....	16
Accounting .....	16
Electronic Data Processing (Business Option) .....	17
Executive Secretarial .....	18
Legal Secretarial .....	18
Medical Secretarial .....	19
Cooperative Retailing .....	20
Certificate Programs in Business .....	21
Bookkeeping-Clerical .....	21
Stenographic .....	21
Programs in Technology .....	22
Associate in Technology Degree Programs .....	22
Architectural Technology .....	23
Automotive Technology .....	23
Aviation Technology .....	24
Building Construction Technology .....	28
Dental Laboratory Technology .....	28
Electronics Technology .....	29



Electronic Data Processing (Industrial Option) .....	30
Forest Products Technology .....	31
Machine Drafting and Design Technology .....	32
Tool and Manufacturing Technology .....	33
Mortuary Science and Funeral Service .....	34
Printing Technology .....	35
Certificate Programs in Technology .....	36
Cosmetology .....	36
Practical Nursing .....	37
Welding .....	37
ADULT EDUCATION (Carbondale Campus) .....	38
Typical Courses .....	38
Educational Planning Committees .....	40
Teaching Staff .....	40
TECHNICAL AND ADULT EDUCATION (Edwardsville Campus) .....	41
Associate Degree Program .....	41
High School Preparation .....	41
Admission .....	41
Advisement .....	42
Placement Services .....	42
Graduation .....	42
Associate in Business Degree Program .....	42
Accounting .....	42
Executive Secretarial .....	43
Legal Secretarial .....	44
Management .....	44
Medical Secretarial .....	45
ADULT EDUCATION (Edwardsville Campus) .....	46
Programs .....	46
Industrial Management .....	46
In-Plant .....	47
Traffic Management .....	47
Development Program for Middle Management .....	47
The Advanced Development Program for Middle Management .....	48
Special Courses, Programs and Conferences .....	48
COURSE DESCRIPTIONS .....	51
FACULTY .....	73
INDEX .....	77



# Board of Trustees and Officers of Instruction



## BOARD OF TRUSTEES


*Term Expires*

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# Division of Technical and Adult Education

1

Southern Illinois University was established in 1869 as Southern Illinois Normal University. The shortened name became official in 1947 by action of the state legislature. The University now operates two major campuses, located at Carbondale and Edwardsville.

In September, 1953, the Division of Technical and Adult Education was established by action of the Board of Trustees, with the appointment of a regularly constituted academic dean. From 1950 to 1953, some types of instruction had been given under different administrative responsibility.

The responsibilities of the division, as set forth in the by-laws and statutes of the Board of Trustees, Southern Illinois University, are two-fold:

1. To administer the Vocational-Technical Institute as an agency in advisement and instruction of students enrolling in vocational and technical credit courses leading toward the two-year Associate in Business, Associate in Art, or Associate in Technology degree.
2. To administer noncredit adult education courses taught by staff of the Vocational-Technical Institute, other academic units of the University, and qualified persons successfully active in industry, business, and the professions.

Both functions of the division have experienced rapid growth due to the offerings which have met particular occupational training needs in business, merchandising, technical, and semiprofessional fields. The Vocational-Technical Institute's programs are carefully planned to meet changing demands in business and industry. Most of the adult education courses result from cooperative planning with local and association educational committees.

## Vocational-Technical Institute

### (Carbondale Campus)

The Vocational-Technical Institute was established in September, 1952, to provide college-level programs of instruction of shorter duration than the usual four-year programs. The Institute's programs qualify students for employment at the semiprofessional and technical level in industry and business. A combination of technical courses and general education courses is included in each curriculum to provide a comprehensive preparation for occupational competence.

Scientific and technical changes have increased the possibilities for employment at the technician's level. For every professional person, industry and business require two to seven properly trained technicians.



The Vocational-Technical Institute campus (Southern Acres) is located about ten miles east of Carbondale and five miles west of Marion on old Route 13. Buildings in the administration area of the former Illinois Ordnance Plant have been remodeled, and additional buildings have been added for instruction. See also Special Services, page 8.

## DEGREES AND CERTIFICATES

The Vocational-Technical Institute offers four types of programs for high school graduates:

1. Two-year programs leading to the Associate in Business degree;
2. Two-year programs leading to the Associate in Technology degree;
3. Two-year programs leading to the Associate in Art degree;
4. One-year programs, each leading to a certificate in practical nursing, cosmetology, welding, calculating machines, bookkeeping-clerical, or stenographic.

Graduates of the Vocational-Technical Institute are trained to meet the continually increasing demands of industry and business for technicians in a variety of areas. While a technician is capable of performing certain skilled tasks, he must also be capable of applying basic problem solving techniques. He must know how to read and comprehend technical material. He must be able to speak and write with clarity and understanding. He must know something of the world of business and economics. He must be able to understand and get along with people.

In order to qualify for the Associate in Technology degree, the Associate in Business degree, or the Associate in Art degree, a student must have a required amount of general instruction, which is provided by the General Studies program. Requirements for general courses vary from field to field. Each program prescribes its required courses. Any General Studies course may be taken as an elective. Each candidate for an associate degree or for a certificate must have a *C* average. This average is required for the credit made at the University as well as for the total record.

The Institute's programs should not be confused with the first two years of any of the four-year programs offered by other academic units of the University. The extent to which credit earned in the various programs of the institute may be transferred to any of the four-year programs, or vice versa, will be determined by the Registrar in cooperation with the deans of the appropriate academic units. Transferrable credits will be evaluated on the basis of the student's previous course of study in relation to the requirements of his desired new program.

The *quarter hour* is the unit of credit used at Southern Illinois University and throughout this catalog. One quarter hour is two-thirds of a semester hour.

## STUDENT ORGANIZATIONS AND ACTIVITIES

Students share in the government of the institute under the supervision of the administration. The Student Council sponsors activities and makes



recommendations on school matters to the director. Student activity is supplemented by various student clubs with local and national affiliations. Each of these student organizations offers further development of character, professional ethics, leadership, and wholesome social recreation.

Recreational facilities are available at Southern Acres for indoor and outdoor activities. Crab Orchard Lake, which is less than a mile away, and Campus Lake, at Carbondale, afford excellent facilities for swimming, fishing, boating, and picnicking.

## ADMISSION

Admission to the Vocational-Technical Institute must be initiated through the Admissions Office at Carbondale. To be eligible for admission, a person must be either a graduate of a recognized high school (graduates of non-recognized high schools may be admitted by the Director of Admissions by examination), or must have passed the General Educational Development Test. A person seeking admission through the latter procedure will be considered only after his high school class would have graduated.

In-state high school graduates who rank in the upper half of their graduating class are permitted to enter any quarter. Those who rank in the lower half but who are not in the lowest one-third may enter any quarter other than the fall. Those who rank in the lowest one-third may enter, on academic probation, either the summer or spring quarters provided that they show adequate scores on the University entrance examination (American College Testing Program—ACT). Graduates who rank in the lower half of their graduating class may qualify to enter either the fall or winter quarters by achieving high scores on the University entrance examination.

Out-of-state high school graduates who rank in the upper forty per cent of their graduating class will be permitted to enter any quarter, while those in the lower sixty per cent of their graduating class will be permitted to enter, on academic probation, during the summer quarter provided that they show high scores on the University entrance examination (ACT).

Both in-state and out-of-state lower-ranking students who elect to enter during the summer quarter can qualify for fall quarter attendance by carrying a minimum academic load of eight quarter hours and completing them with at least a *C* average.

Students who rank in the upper quarter of their high school graduating class will be considered for admission after completion of the sixth semester. Upper quarter students who seek admission after the sixth semester must furnish University entrance examination scores prior to their first registration. All other students must furnish examination scores prior to their being admitted to the University.

All admissions granted students while in high school are subject to the completion of high school work and maintenance of rank upon which the admission was made.

## PHYSICAL EXAMINATION REQUIRED FOR ADMISSION

Each new student admitted as a freshman or transfer student is required to have a physical examination performed by a private physician recorded on



the form provided by the University. This must be accomplished prior to registration in the University. In case of a religious belief which is in conflict with this plan, special arrangements may be made with the director of the University Health Service.

### TUITION AND FEES

The fees charged students are established by the Board of Trustees and are subject to change when necessary. At the present time, the fees charged each undergraduate student for a quarter are as listed below.

Tuition	\$ 42.00
(non-Illinois residents)	(172.00)
Student Activity fee	10.50
University Center fee	5.00
Student Welfare and Recreational	
Building Trust Fund fee	15.00
Book Rental fee	8.00
Total	<hr/> \$80.50
(non-Illinois residents)	(\$210.50)*
* Effective Winter Quarter 1967	

### ADVISEMENT

After students have been admitted to the University, they should contact the *Chief Academic Adviser* at the Vocational-Technical Institute. The Chief Academic Adviser, to insure that students are properly advised concerning their choice of program, will direct them to a selected member of the faculty representing their special field of interest. Advisers will assist students in planning their program in a way to provide them an opportunity to acquire the highest technical competence.

### REGISTRATION

Students register for a quarter during the preceding quarter. Ordinarily registration starts during the third week of a quarter and continues throughout the quarter. New students have certain periods set aside for them during the advance registration period for their advisement and registration. A line-stand period is provided at the start of each quarter for students to register but all students, new and continuing, are encouraged to advance register.

Registration for any session of the University is contingent upon being eligible for registration. Thus, a registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Dean of Students.

Detailed information about the dates and procedures for advisement and registration appears in the Schedule of Classes, available from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

## ACADEMIC LOAD

The normal class load for a student is 16 hours. A maximum is 18 hours.

A student with a 4.25 grade point average or above for the preceding quarter may be allowed by the head of his academic unit to take as many as 21 hours. In no case may a student carry, or be credited with, more than 21 hours in any quarter.

A student on scholastic probation may not take more than 14 hours without approval of the head of his academic unit. A student employed full-time may not register for more than 8 hours.

Ordinarily, a student must carry 12 or more hours per quarter to be considered a full-time student. However, a number of programs may carry different requirements and a student attending the University under a scholarship, loan, governmental, or other type of program requiring full time enrollment, should check to make certain that he is meeting the requirements of his specific program. For example, Public Law 358 (the new GI Bill) requires 14 quarter hours on the undergraduate level for full-time, 10 to 13 is considered three-quarter load, and 7 to 9 hours, half load. A student concerned with Selective Service on the undergraduate level needs to carry 12 hours to be considered full-time. However, for Selective Service purposes, a student must also be making satisfactory progress. Therefore, he needs to accumulate 48 passing hours each year. Because of this, he must consider 12 hours as only a minimum load for full-time purposes with 16 hours per quarter as the average load he must maintain throughout the year. Further information on both Public Law 358 and Selective Service is available in the Registrar's Office.

## GRADING SYSTEM

Grades are expressed in letters as follows:

*Grade Points*  
(Per Quarter Hour)

A, Excellent .....	5
B, Good .....	4
C, Satisfactory (this is intended to be the average grade) .....	3
D, Poor, but passing .....	2
E, Failure	
W, Authorized withdrawal with no basis for eval- uation established. Work may not be com- pleted. Approved grading symbol only on grad- uate level except for unusual circumstances where an academic unit dean recommends a change in grade from AB to W for a student.	
Wp, Authorized withdrawal with passing grade.	
WE, Authorized withdrawal with failing grade.	
Inc, Incomplete. Has permission of instructor to be completed.	
Def, Deferred. Used only for graduate courses	



of an individual, continuing nature such as thesis or research.

Ab, Unauthorized withdrawal. Same as E for academic retention purposes.

S, Satisfactory. Used only for noncredit courses.

U, Unsatisfactory. Used only for noncredit courses.

Au, Audit. No grade or credit hours earned.

A grade given at the end of a course is final and may not be raised by additional work.

All complete grades and the grades of WE and Ab are included in determining student grade point averages for academic retention purposes.

Authorized course withdrawals made through the program change process do not receive grades when made during the first four weeks of a quarter. Thereafter, authorized withdrawals receive Wp for withdrawal with a passing grade, WE for withdrawal with a failing grade, or W (for graduate students only) when no basis for evaluation has been established.

Unauthorized course withdrawals which are made through failure of the students to continue in attendance receive a grade of Ab. An Ab grade for a student may be changed to a W in unusual circumstances upon the recommendation of the head of the student's academic unit.

An Inc grade may be changed to a completed grade within a time period to be designated by the instructor, not to exceed one year from the close of the quarter in which the course was taken; otherwise it remains as an Inc grade and is not included in grade point computation.

A def grade for course work of an individual nature such as research, thesis, or dissertation is changed to a completed grade when the project has been completed.

The grades of S and U are used to indicate satisfactory or unsatisfactory completion of a noncredit course.

A student registering for a course on an *audit* basis receives no letter grade and no credit hours. An auditor's registration card must be marked accordingly and he pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for audit or credit may change to a credit status or vice versa through the official program change method during the first four weeks of a quarter. Thereafter the change may not be made.

The official record of a student's academic work is maintained in the Registrar's Office.

## SCHOLASTIC PROBATION

To ensure that a student makes satisfactory progress toward his educational objective he is required to maintain both a 3.00 grade point average on a

quarter to quarter basis and a progressively improving grade point average as he accumulates specified numbers of hours to his record. Otherwise, he will be placed in categories other than Good Standing and may be required to discontinue attendance at the University for a period of time.

A student who is in Good Standing will be placed on Good Standing-Scholastic Warning at the end of a quarter in which he fails to make a 3.00 grade point average provided he has calculated hours and an accumulative grade point average as follows:

Fewer than 96 calculated hours and less than a 3.00 grade point average.

Ninety-six but fewer than 144 calculated hours and less than a 3.10 grade point average.

One hundred forty-four or more calculated hours and less than 3.15 grade point average.

He is returned to Good Standing at the end of a quarter in which he makes a 3.00 grade point average or better average while on Good Standing-Scholastic Warning.

When a student on Good Standing-Scholastic Warning fails to make a 3.00 grade point average for a quarter he is placed on Scholastic Probation and may be subject to suspension from the University for scholastic reasons at the end of a quarter in which he fails to earn a 3.00 grade point average while on Scholastic Probation.

A transfer student is subject to the above averages as applied to his academic record at this University and to his over-all academic record.

To ensure that a student is making progress toward the 3.00 grade point average required for graduation he must maintain a progressively improving accumulative grade point average. At the end of each spring quarter a student who has accumulated the number of calculated hours listed below must also have obtained the corresponding accumulative grade point average:

<i>Quarter hours</i>	<i>Required average</i>
48- 95.5	2.40
96-119.5	2.70
120-143.5	2.80
144-159.5	2.90
160-	2.95

Otherwise he will be suspended from the University for scholastic reasons. He may seek reinstatement after a minimum of two quarters interruption but must furnish tangible evidence that additional education can be successfully undertaken.

A transfer student is subject to the above accumulative grade point averages as applied to his academic record at this University and to his over-all academic record.

## PROFICIENCY EXAMINATIONS

The University recognizes the importance of providing adequate encouragement for academically talented students. Thus, such students are permitted



to make application to demonstrate the mastery of certain courses through proficiency examinations. Applications are made at the Registrar's Office.

The following general rules govern the proficiency examinations for undergraduate credit:

1. Any student who feels qualified to take a proficiency examination is eligible to do so; students scoring in the top ten percent of ACT are particularly encouraged to avail themselves of this opportunity.

2. Credit not to exceed 24 hours, including credit through the College Entrance Examination Board, Advanced Placement Program, may be earned through proficiency examinations. Credit will be nonresident.

3. Upon passing a proficiency examination in a course with a credit of "passing," a student will be granted regular credit toward graduation or toward any other legitimate objective. His record will show the name of the course, the hours of credit granted, and a notation "credit granted by proficiency examination"; however, this credit will be neutral in the calculation of grade point average. If a student fails a proficiency examination, his record will show nothing, but the report will be appropriately filed.

4. A student may not take a proficiency examination for the same course more than one time. Neither may he take a proficiency examination in a course in which he has previously received a grade.

5. No credit granted by proficiency examinations will be recorded until the student has earned at least 16 hours of credit of *C* grade or above in residence at Southern Illinois University.

6. A student applying to take a test for advanced standing only should initiate the request at an advisement office. No credit is recorded regardless of the grade earned.

## HONORS DAY

In recognition of high scholarship, an Honors Day convocation is held each spring. A candidate for a bachelor's degree in June or August who has maintained a grade point average of 4.25 or more for all of his work through the winter quarter of his senior year receives special honor. Each junior having a 4.25 grade point average and each sophomore and freshman having a 4.50 grade point average is also honored at the convocation. Except in the case of a graduating senior, a student must be attending full time to be eligible. A transfer student must have earned the average indicated for work here only, as well as for the total record.

## SPECIAL SERVICES

Students at the Vocational-Technical Institute enjoy the benefits and privileges available to other students of the University. Meals may be purchased at the cafeteria at the Vocational-Technical Institute and at the University Center at Carbondale. Regular facilities of the Health Service are supplemented by a local doctor, a nearby hospital, and a nurse whose headquarters are at the Vocational-Technical Institute campus. Textbooks are issued at the

Vocational-Technical Institute at the beginning of each quarter through the Textbook Service and are returned at the end of the quarter. Supplies and supplemental educational materials may be purchased at the University Store. The Placement Service, which is in contact with industrial, business, and professional groups, arranges interviews for graduates and provides credentials to prospective employers. Assistance from the Placement Service is available at the Vocational-Technical Institute. A branch of the University Libraries operates at the Institute, and the facilities of Morris Library at Carbondale are available. Hourly bus service between the Vocational-Technical Institute campus and Carbondale is free for students and faculty.

## **HOUSING**

A student desiring University Housing at Carbondale or at the Vocational-Technical Institute campus should apply to the Housing Office in Carbondale as early as possible because contracts are awarded in order of receipt of applications. Housing applications for an academic year are accepted anytime after September 1, of the preceding year. However, housing contracts are not awarded until admission requirements have been satisfied. In order to assure favorable housing conditions students are advised to complete their admission processing as early as possible in the permissible time period.

## **STUDENT WORK PROGRAM**

The Student Work Program serves two major purposes: It provides financial assistance in the form of part-time employment; and it provides work experience which relates, if possible, to the student's academic program. Students employed on campus are expected to participate in training programs. The kind of training and length of the programs are determined by the employing unit in cooperation with the Student Work Office.

The Student Work Office, which is the administrative office for the program, is a referral agency and cannot promise jobs to students. However, every effort is made to place capable, needy students in either on-campus or off-campus jobs.

An application for student employment, or information about work possibilities, may be obtained by writing to the Student Work and Financial Assistance Office, Southern Illinois University, Carbondale, 62901.

## **STUDENT FINANCIAL ASSISTANCE**

The financial assistance program at Southern Illinois University has been organized so that it may function as an integral part of the total educational experience of the student. Insofar as possible, an attempt is made not only to assist needy and deserving students with their financial obligations through the program but to contribute to their general development and learning experience.



The program of financial assistance includes scholarships, awards, prizes, grants-in-aid, and student loan funds. As a part of the award program, the Board of Trustees of the University has established tuition awards known as Southern Illinois University Scholarship and Activity Awards. To apply for awards, entering freshmen are required to have ranked in the upper half of their graduating class and to have achieved a minimum comprehensive high school average of *C*; enrolled students are required to have a minimum average of *C* for all college work. For scholarships available to upperclassmen, a minimum average of *C* is required for all college work; for some scholarships higher averages are required.

The comparative limitations of such forms of assistance in terms of both number and amount available make it inadvisable for an undergraduate student to expect to meet all university expenses from such sources. The family, including parents, friends, and relatives, is the primary resource for a student's college costs. The student himself normally supplies one-third to one-half of his finances through work during the summer or during school, and through his savings. The University assists in making up the difference between college costs and the student's resources through scholarships, awards, and loans.

Students desiring to apply for financial assistance must be officially admitted and should request an application for financial assistance from the Student Work and Financial Assistance Office on the campus of their choice. In general, students should apply for assistance between January 1 and March 15 prior to the September when assistance is needed.

## ADVISORY COMMITTEES

In order that the Vocational-Technical Institute programs be kept up-to-date and responsive to the needs of business and industry, advisory committees have been formed to assist in the evaluation of these programs and to recommend improvements in curriculum, course content, and laboratories. Each committee meets at least once a year and when circumstances demand. The members are selected from national, state, and local levels on the basis of leadership in their fields and/or opportunities they have to observe the work of graduates of the Vocational-Technical Institute. In many cases, members serve as visiting lecturers and bring directly to the students the latest developments in their respective areas of specialization. They also forecast trends affecting employment and specific areas of training.

### ACCOUNTING

**R. M. Bates**, Controller, Good Luck Glove Co., Carbondale, Illinois; **Herman Colombo**, Internal Revenue Service, Herrin, Illinois; **F. W. MacLean**, Assistant Division Manager, General Accounting Division, Marathon Oil Company, Findlay, Ohio; **Robert E. Prothero**, C.P.A., Management Controls Department, Peat, Marwick, Mitchell & Co., St. Louis, Missouri; **E. W. Sorgen**, Treasurer, Diagraph-Bradley Industries Inc., Herrin, Illinois

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ern Illinois University, Carbondale, Illinois; **Paul Saunders**, Architect, 3232 State East St. Louis, Illinois

#### AUTOMOTIVE TECHNOLOGY

**Charles Deppe**, United Motors Instructor, General Motors Training Center, St. Louis, Missouri; **Kenneth James**, Buick Instructor, General Motors Training Center, St. Louis, Missouri; **Vern Lassin**, Lincoln Mercury Service Representative and Instructor, St. Louis, Missouri; **C. T. Warren**, Ford Service Representative and Instructor, St. Louis, Missouri; **Steven K. Wagner**, Herrin-Chrysler-Plymouth Service Representative

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#### COMMERCIAL ART

**Horace S. Allen**, Chief, Publications Production, McDonnell Aircraft Corp.; **Lawrence T. Jones**, Design Director, American Machine & Foundry Co.; **John Waltersam**, Supervisor, Technical Publication, Emerson Electric Co.

#### COOPERATIVE RETAILING

**Gene Cox**, Owner, Manager, Cox Hardware & Furniture Stores, Marion, Illinois; **A. J. Mayotte**, Manager, Sears Roebuck & Co., Kankakee, Illinois; **Hugh E. Muncy**, Executive Vice President, Illinois Retail Merchants Assoc., Chicago 3, Illinois; **Edward J. Renowden**, Personnel Director, North Central Region, F. W. Woolworth Co., Des Plaines, Illinois; **Josephine P. Lawton**, Divisional Vice President and General Merchandise Manager, Budget Store, Carson, Pirie, Scott & Co., Chicago, Illinois; **Anita Wozniak**, Executive Training Manager, Carson, Pirie, Scott & Co., Chicago, Illinois; **Harvard Sohn**, President, Sohns Quality Stores, Inc., Herrin, Illinois; **Thomas E. Smart, Jr.**, Owner, Manager, Mr. Ed's Big Star Food Store, Marion, Illinois

#### COSMETOLOGY

**Mrs. Evelyn Bunge**, Past President of IHCA, Chicago, Illinois; **Mrs. Zonna Chamness**, President, National Hairdressers & Cosmetologists Association, Little Egypt Hairdressers, Unit No. 34 Orchard Drive, Carbondale, Illinois; **Mrs. Anna Mae Dalton**, Executive Secretary of IHCA, Big Rock, Illinois; **Mr. Eugene O. May**, President of IHCA, Chicago, Illinois; **Mr. Earl Parsons**, Board of Directors, IHCA, Granite City, Illinois; **Mr. Budde Walton**, Secretary, Illinois Hairdressers & Cosmetologists Association; **Mr. John C. Watson**, Director, Department of Registration and Education, Springfield, Illinois



#### DENTAL HYGIENE

**V. A. Beadle**, D.D.S., Carbondale, Illinois; **T. L. Bryant**, D.D.S., Carbondale, Illinois; **R. E. Dudenbostel**, D.D.S., Carbondale, Illinois; **L. E. Keller**, D.D.S., Marion, Illinois; **A. L. Lenzini**, D.D.S., Herrin, Illinois; **J. R. McIntire**, D.D.S., DuQuoin, Illinois; **C. G. Neill**, D.D.S., Carbondale, Illinois; **W. C. Thalman**, D.D.S., Carbondale, Illinois

#### DENTAL LABORATORY TECHNOLOGY

**V. A. Beadle**, D.D.S., Carbondale, Illinois; **Leonard Kulweic**, C.D.T., President of National Association of Dental Laboratories, Orland Park, Illinois; **Clifford Neill**, D.D.S., Carbondale, Illinois; **Willard T. Vondran**, C.D.T., Oak Lawn, Illinois

#### ELECTRONIC DATA PROCESSING (Business or Industrial Option)

**James Adams**, Education Director, Data Processing Management Association, Park Ridge, Illinois; **Neil T. Dohr**, Supervisor of Administration, McDonnell Automation Center, St. Louis, Missouri; **Harold D. Hamilton**, General Manager, Fas-Tab Corporation, Naperville, Illinois; **Thomas Purcell**, Ph.D., Director Data Processing and Computing Center, Southern Illinois University, Carbondale, Illinois; **Ted Riddle**, Data Processing Supervisor, Norge Division of Borg-Warner Corporation, Herrin, Illinois

#### ELECTRONICS TECHNOLOGY

**David Litke**, Manager of Assembly Operations, General Electric Company, Decatur, Illinois; **Eshmal Porter**, Lead Engineer, Instrumentation and Standards Laboratory, McDonnell Aircraft Corporation, St. Louis Missouri; **John Schultz**, Plant Supervisor, Illinois Bell Telephone Company, Springfield, Illinois; **Howard N. Schlechte**, Field Manager, IBM Field Engineering Division, St. Louis, Missouri; **Carl Remy**, Senior Electrical Engineer, Electric Energy Inc., Joppa, Illinois; **Thomas A. Sorbers**, Manager, Education and Training Products, Philco Corporation, Philadelphia, Pennsylvania

#### FOREST PRODUCTS TECHNOLOGY

**C. D. Dosker**, Forest Products Engineer, 317 Mockingbird Hill Road, Louisville, Kentucky 40207; **K. J. Heinzelman**, President, Union Tool Corporation, Warsaw, Indiana 46580; **W. D. Page**, Executive Vice President, Plywood Fabricator Service, Inc., P.O. Box 7, Riverdale Station, Chicago, Illinois 60627; **Darrell Ward**, Editor, Hitchcock's Woodworking Digest Magazine, Wheaton, Illinois 60188; **Robert L. Youngs**, Chief, Solid Wood Products Research Division, Forest Products Laboratory, U.S. Forest Service, Madison, Wisconsin 53705

#### MACHINE DRAFTING AND DESIGN TECHNOLOGY

**John Nichol**, Industrial Engineer, Union Carbide Corporation, Nuclear Division, Paducah, Kentucky; **W. Miller Owen**, Asst. Chief Engineer of the Engineering Training Division of the Peoria Engineering Department, Caterpillar Tractor Company, Peoria, Illinois; **Lavern W. Olson**, Engineering Manager, Ingersoll Milling Machine Company, Rockford, Illinois; **Burt Snyder**, Chief Engineer, Argonne National Laboratory, Argonne, Illinois; **Nick Veracalli**, Drafting Configuration Control Supervisor, Olin Mathieson Company, Ordill, Illinois

#### MORTUARY SCIENCE AND FUNERAL SERVICE

**James Couch**, Chicago, Illinois, Illinois Selected Morticians, State Board Funeral Directors & Embalmers; **Wayne Dieterle**, Aurora, Illinois, Illinois Funeral Directors Association; **William Froelich**, Gridley, Illinois, Illinois Funeral Directors Association; **Nyle Huffman**, Carbondale, Illinois, Illinois Funeral Directors Association; **Daniel Justin**, McHenry, Illinois, State Board of Funeral Directors & Embalmers;

**Joseph McCracken**, Pana, Illinois, Illinois Funeral Directors Association; **Joseph Schilling**, Mattoon, Illinois, Illinois Funeral Directors Association; **James Wilson**, Marion, Illinois, Illinois Funeral Directors Association; **Roger Ytterberg**, Springfield, Illinois, Executive Secretary, Illinois Funeral Directors Association

#### PRACTICAL NURSING

**Mrs. Edith Breniman**, Director of Nurses, Doctors Hospital, Carbondale, Illinois; **Louise M. Dailey**, R.N., Supervisor of Health Occupations Education, Board of Vocational Education & Rehabilitation, Office of Superintendent of Public Instruction, Springfield, Illinois; **Mrs. Marcella Ebersohl**, Illinois Department of Public Aid, Marion, Illinois; **Dr. Penelope Kupsinel**, Associate Professor, Home Economics Department, Indiana State University, Terre Haute, Indiana; **David Richardson**, M.D., Director, Williamson-Franklin Bi-County Health Department, Johnston City, Illinois; **Mr. Glen Zilmer**, Administrator, Holden Hospital, Carbondale, Illinois

#### PRINTING TECHNOLOGY

**Dr. Ray Cornwell**, Managing Editor, McKnight and McKnight Publishing Company, Bloomington, Illinois; **Ed Soldner**, Assistant Manager, Republican-Leader, Marion, Illinois; **Dennis Schutte**, St. Louis Manager, Varityper Corporation, St. Louis, Missouri; **Edward A. Taylor**, Editor and Publisher, Pulaski Enterprise, Mounds, Illinois

#### SECRETARIAL

**Betty M. Bone**, Manager, Women's Personnel, Monsanto Company, St. Louis, Missouri; **Herman Colombo**, Internal Revenue Service, Herrin, Illinois; **Irwin S. Ginsburg**, Employment Manager, Argonne National Laboratory, Argonne, Illinois; **Lois Nelson**, Secretary to the President, Southern Illinois University; **Robert E. Prothero**, C.P.A., Management Controls Department, Peat, Marwick, Mitchell & Co., St. Louis, Missouri; **Pearl Roberts**, Certified Professional Secretary, Johnston City, Illinois; **Elsie E. Weekly**, Manager, Women's Personnel, Ralston Purina Company, Checkerboard Square, St. Louis, Missouri

#### TOOL AND MANUFACTURING TECHNOLOGY

**Rudy Andolsek**, Vice President in charge of manufacturing, Diagraph-Bradley Industries, Inc., Ordill, Illinois; **James R. Elliott**, General Foreman, Machine Shop, Union Carbide Corporation, Nuclear Division, Paducah, Kentucky; **Edward Lach**, Assistant Superintendent of Central Shops, Argonne National Laboratory, Argonne, Illinois; **Lavern W. Olson**, Engineering Manager, Ingersoll Milling Machines, Rockford, Illinois; **Herbert Wright**, Coordinator of Training, Cincinnati Milling & Grinding, Inc., Cincinnati, Ohio

#### WELDING

**Mr. R. J. Lukuc**, Olin Mathison Corporation, Marion, Illinois; **Mr. Thomas M. Devardo**, Fabick Machinery Company, Marion, Illinois; **Mr. Clifford L. Schulze**, Continental Boiler and Sheet Iron Works, St. Louis, Missouri; **Mr. Emmett F. Condon**, McDonnell Aircraft Corporation, St. Louis, Missouri

### GENERAL STUDIES REQUIREMENTS

The art of communication is provided by English composition, correspondence, English analysis, technical report writing and speech. A refresher on the mathematical tools includes a review of arithmetic, algebra, geometry, and trigonometry. The sciences are represented by basic studies in physics and chemistry. The life sciences are represented by biology and physiology.



Government, economics, and psychology are offered to help students meet the problems of the business and technical world.

## ASSOCIATE IN ART DEGREE PROGRAMS

The Vocational-Technical Institute offers the Associate in Art degree in two fields of specialization: Commercial Art and Dental Hygiene. Each program includes courses in general studies in addition to intensive training in the special subjects and skills required for entrance into the professional world of work.

Candidates for the Associate in Art degree must complete the prescribed course of study with an over-all grade point average of *C*.

### COMMERCIAL ART

Commercial Art will enable the serious career-minded student to meet the exacting demands of today's advertising field and industry. Only professional methods are taught in a professional atmosphere by practicing professional artists. Student laboratories, problem assignments, and work standards closely parallel to those in the field in which the student, upon graduating, will be engaged.

Successful completion of this course of study culminates with the preparation of a portfolio of professionally acceptable samples which will enable the student to compete for the initial position, not only in his chosen field, but in most phases of commercial art.

Each student is required to purchase a small amount of basic equipment and supplies.

Candidates for the Associate of Art degree must complete the prescribed course of study with a minimum of 100 hours and an over all *C* grade average.

#### FIRST QUARTER

Art Analysis	VTI N 101-3
Techniques, Theory and Practice	VTI N 125-10
English Composition	GSD 101-3

#### SECOND QUARTER

Advertising Design and Production	VTI N 130-10
Culture, Behavior and Society	GSB 201c-3
English Composition	GSD 102-3

#### THIRD QUARTER

Introductory Advertising and Story Illustration	VTI N 140-10
Political Economy	GSB 211b-4
Oral Communication of Ideas	GSD 103-3

#### FOURTH QUARTER

Advertising and Story Illustration, Theory and Practice	VTI N 210a-8
Technical Illustration, Theory and Practice	VTI N 230a-7

#### FIFTH QUARTER

Advertising and Story Illustration, Theory and Practice	VTI N 210b-8
Technical Illustration, Theory and Practice	VTI N 230b-7
Technical Writing	VTI G 102-3

#### SIXTH QUARTER

Advertising and Story Illustration Theory and Practice	VTI N 210c-7
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Technical Illustration,  
Theory and  
Practice

VTI N 230c-6

Printing, Theory,  
and Practice

VTI J 235-5

#### RECOMMENDED ELECTIVES

Technical Mathematics VTI G 107-3

Introduction to  
Physical Science GSD 101a-3

### DENTAL HYGIENE

The dental hygienist is the only one of the auxiliary dental health team who works directly in the mouth like the licensed dentist, and, like the dental practitioner, she must obtain a license from the state in which she expects to practice. She is required to complete successfully a comprehensive practical and written examination given under the direction of the State Board of Dental Examiners. Each student is required to provide her own uniform, caps, and equipment and to be responsible for instruments used. She should set aside about \$150 for these items, for they are not covered by the fees paid to the University.

The hygienist's area of service includes prophylaxis (scaling and polishing of the teeth), dental health education, X-ray examinations, receptionist, administrative procedures, chairside assisting, and some laboratory techniques. All her work is done under supervision of a licensed dentist.

Dental Hygiene is provisionally approved by the Council of Dental Education of the American Dental Association. Applicants are required to take the Dental Hygiene Aptitude Test which is offered three times yearly on the campus under the auspices of the Student Counseling and Testing Center. This is a prerequisite for admission to the program. Seven terms of residence in sequence are required to complete the program.

All students are required to accept and abide by the official "Rules and Regulations" of the program as approved and published by the Vocational-Technical Institute. One hundred thirteen hours of credit and approvals of staff and administration are required to qualify for graduation. After graduation and licensing, she is eligible to become a member of the American Dental Hygienists' Association which is closely associated with the American Dental Association.

#### FIRST QUARTER

Orientation to Dental  
Hygiene

VTI Y 130-2

Head and Neck Anatomy

VTI Y 132a-4

Oral Basic Science—

Histology VTI Y 135a-4

English Composition GSD 101-3

Principles of Physiology GSA 301-4

#### SECOND QUARTER

Head and Neck Anatomy—

Dental Anatomy VTI Y 132b-4

Oral Basic Science—

Microbiology VTI Y 135b-4

Preclinical Dental Hygiene

VTI Y 137a-4

Culture, Behavior, and  
Society

GSD 201c-3

English Composition

GSD 102-3

#### THIRD QUARTER

Oral Basic Science—

Pathology VTI Y 135c-3

Preclinical Dental Hygiene

VTI Y 137b-4

Dental Nutrition VTI Y 139-3

Dental Pharmacology VTI Y 140-2

Introduction to Chemistry—

Inorganic VTI G 115a-3

Oral Communication of  
Ideas

GSD 103-3



**FOURTH QUARTER**

Dental Hygiene Clinic      VTI Y 209-5  
 Clinical Dental Roentgenology

VTI Y 218a-2

Introduction to Chemistry—

Organic and Biochemistry

VTI Y 115b-3

Science of Dental Materials—

Restorative

VTI Y 113b-3

**FIFTH QUARTER**

Clinical Dental

Hygiene

VTI Y 210a-5

Dental Assisting

VTI Y 213a-3

Dental Administration and

Practice

VTI Y 216a-2

Clinical Dental

Roentgenology

VTI Y 218b-2

Culture, Behavior, and

Society

GSB 201b-3

**SIXTH QUARTER**

Clinical Dental

Hygiene

VTI Y 210b-5

Dental Assisting

VTI Y 213b-3

Clinical Dental

Roentgenology

VTI Y 218c-2

Dental Health

Education

VTI Y 217-2

Elective

-3

**SEVENTH QUARTER**

Clinical Dental Hygiene VTI Y 210c-5

Dental Public Health VTI Y 220-3

Dental Administration and

Practice

VTI Y 216b-2

First Aid

HEd 334S-4

Elective

-3

**RECOMMENDED ELECTIVES**

Communicable Disease HEd 300-3

Technical Writing VTI G 102-3

Typewriting VTI S 101a-3

## ASSOCIATE IN BUSINESS DEGREE PROGRAMS

Two-year programs in various phases of business leading to the Associate in Business degree are designed to train young men and women for their initial jobs in: accounting; electronic data processing; executive, legal, or medical secretary; and retailing. In addition to skill training, related courses are required which give the student background information as a basis for occupational competency and future advancement.

Each candidate for the Associate in Business degree must complete the minimum number of hours of approved courses, plus any deficiency requirements in the chosen field of specialization which are apparent when the adviser prepares the student's program. The total hours required for completion of a program varies with each particular field of study.

For those programs requiring typewriting and shorthand, placement tests are given to students who have had typing and shorthand in high school. Evidence of proficiency, as shown by the placement tests will permit a student to take electives in lieu of certain required courses.

### A C C O U N T I N G

These courses offer thorough and practical training for a position as book-keeper, payroll clerk, junior accountant, or assistant to an accountant or auditor. Positions with governmental agencies and in public accounting are also filled by graduates.

A minimum of 100 hours must be completed for graduation.

**FIRST QUARTER**

Accounting I

VTI B 101a-6

Typewriting I

VTI S 101a-3

Data Processing

Mathematics

VTI E 100-5

English Composition

GSD 101-3

## SECOND QUARTER

Accounting II	VTI B 101b-5
Calculating Machines	VTI K 101a-3
English Composition	GSD 102-3
Political Economy	GSB 211a-4
Elective	-3

## THIRD QUARTER

Accounting III	VTI B 101c-4
Business Law I	VTI B 226a-4
Culture, Society, and Behavior	GSB 201c-3
Oral Communication of Ideas	GSD 103-3
Political Economy	GSB 211b-3

## FOURTH QUARTER

Accounting	VTI B 201a-4
Job Cost Accounting	VTI B 130-4
Business Law II	VTI B 226b-4
Office Administration and Supervision	VTI B 227-5

## FIFTH QUARTER

Process Cost Accounting	VTI B 204-4
Federal Taxes	VTI B 233-5
Business Statistics	VTI B 235-4
Job Orientation	VTI X 201-2

## SIXTH QUARTER

Accounting V	VTI B 201b-4
Auditing	VTI B 230-5
Credits and Collections	VTI B 275-4
Elective	-3

## RECOMMENDED ELECTIVES:

Calculating Machines	VTI K 101b-3
Automatic Data Processing Machines	VTI E 101a-3
Punched Card Preparation	VTI B 109-3
Filing and Duplicating	VTI S 107-3
Labor Management Relations Problems	VTI G 232-4
Personnel Management	VTI R 227-3
Business Correspondence	VTI G 101-3

## ELECTRONIC DATA PROCESSING (Business Option)

Punched card preparation, electromechanical machines operation, and electronic computers are processes and equipment used by the student who aspires to become a programmer. Courses in the theory of accounting, cost accounting, and related fields in business are required to complete this two-year program. Upon successful completion of this course, the student will be sufficiently trained to work in data processing and computer centers where the knowledge of programming is a prerequisite for working with electronic computers and related machines.

A minimum of 102 hours must be completed for graduation.

## FIRST QUARTER

Data Processing	
Mathematics	VTI E 100a-5 <sup>1</sup>
Automatic Data Processing	
Machines	VTI E 101a-3
Accounting	VTI B 101a-6
English Composition	GSD 101-3

## SECOND QUARTER

Data Processing	
Mathematics	VTI E 100b-4
Automatic Data Processing	
Machines	VTI E 101b-5
Accounting	VTI B 101b-5
English Composition	GSD 102-3

## THIRD QUARTER

Computer Programming	VTI E 103-5
Data Processing	
Applications	VTI E 104-3
Data Processing	
Information	VTI E 107-2
Accounting	VTI B 101c-4
Calculating Machines	VTI K 101a-3

## FOURTH QUARTER

Business Computer Programming	VTI E 203a-5
Systems Design and Development	VTI E 205-5

<sup>1</sup>Students who score below a satisfactory level on the mathematics part of the ACT examinations must take VTI G 106-0 prior to taking VTI E 100a-5.



Job Cost Accounting	VTI B 130-4	Data Processing Field	
Technical Writing	VTI G 102-3	Project	VTI E 207-3
FIFTH QUARTER		Culture, Society, Behavior	GSB 201c-3
Business Computer		Political Economy	GSB 211b-4
Programming	VTI E 203b-5	RECOMMENDED ELECTIVES:	
Programming Systems	VTI E 206a-3	Business Law	VTI B 226-8
Office Administration and		Labor Management	
Supervision	VTI B 227-5	Relations Problems	VTI G 232-4
Business Statistics	VTI B 235-4	Political Economy	GSB 211a-4
SIXTH QUARTER		Oral Communication of	
Programming Systems	VTI E 206b-7	Ideas	GSD 103-3

### EXECUTIVE SECRETARIAL

Students who wish to prepare for positions as professional secretaries in business, industrial, and governmental offices should follow this course of study.

The designated courses offer a combination of general education and skill-building courses which provide a high degree of occupational competence, as well as a general knowledge for the responsible execution of secretarial duties.

A minimum of 100 hours must be completed for graduation.

FIRST QUARTER		Data Processing	
Typewriting	VTI S 101a-3	Mathematics	VTI E 100-5
Shorthand	VTI S 104a-6	Business Law I	VTI B 226a-4
Filing and Duplicating	VTI S 107-3	FIFTH QUARTER	
English Composition	GSD 101-3	Job Orientation	VTI X 201-2
SECOND QUARTER		Legal Shorthand	VTI S 224-6
Typewriting	VTI S 101b-3	Secretarial Accounting	VTI B 104-5
Shorthand	VTI S 104b-6	Political Economy	GSB 211b-4
Fundamentals of		SIXTH QUARTER	
Business	VTI B 126-3	Typewriting	VTI S 205b-3
English Composition	GSD 102-3	Shorthand	VTI S 209b-6
THIRD QUARTER		Secretarial Office	
Typewriting	VTI S 101c-3	Procedures	VTI S 223-5
Shorthand	VTI S 104c-6	Oral Communication of	
Culture, Society, and		Ideas	GSD 103-3
Behavior	GSB 201c-3	RECOMMENDED ELECTIVES	
Calculating Machines	VTI K 101a-3	Medical Shorthand	VTI S 225a-7
Business Correspondence	VTI G 101-3	Accounting	VTI B 101a-7
FOURTH QUARTER		Office Administration	
Typewriting	VTI S 205a-3	and Supervision	VTI B 227-5
Shorthand	VTI S 209a-6	Calculating Machines	VTI K 101b-3
		Business Law	VTI B 226b-4

### LEGAL SECRETARIAL

The courses provide, in addition to the secretarial skill, specialized courses in law-office routines and legal knowledge. Graduates may secure positions as legal secretaries with attorneys, judges, or legal departments; or students may continue their studies in order to become conference or court reporters.

A minimum of 101 hours must be completed for graduation.

<b>FIRST QUARTER</b>		Secretarial Office	
Typewriting	VTI S 101a-3	Procedures	VTI S 223-5
Shorthand or	VTI S 104a-6	Business Law	VTI B 226a-4
Machine Shorthand	VTI H 120a-6		
Fundamentals of		<b>FIFTH QUARTER</b>	
Business	VTI B 126-3	Legal Shorthand	VTI S 224-6
Business Correspondence	VTI G 101-3	Business Law	VTI B 226b-4
		Calculating Machines	VTI K 101a-3
<b>SECOND QUARTER</b>		Political Economy	GSB 211b-4
Typewriting	VTI S 101b-3		
Shorthand or	VTI S 104b-6	<b>SIXTH QUARTER</b>	
Secretarial Accounting	VTI B 104-5	Typewriting	VTI S 205b-3
Machine Shorthand	VTI H 120b-6	Jury Charge	VTI H 112-4
Filing and Duplicating	VTI S 107-3	Two-Voice Testimony	VTI H 210-4
English Composition	GSD 101-3	Job Orientation	VTI X 201-2
Culture, Society and		Oral Communication of	
Behavior	GSB 201c-3	Ideas	GSD 103-3
<b>THIRD QUARTER</b>		<b>RECOMMENDED ELECTIVES</b>	
Typewriting	VTI S 101c-3	Accounting	VTI B 101a-6
Shorthand or	VTI S 104c-6	Office Administration	
Machine Shorthand	VTI H 120c-6	& Supervision	VTI B 227-5
English Composition	GSD 102-3	Automatic Data Processing	
		Machines	VTI E 101a-3
<b>FOURTH QUARTER</b>		Data Processing	
Typewriting	VTI S 205a-3	Mathematics	VTI E 100-5
Medical Shorthand	VTI S 225a-6		

### MEDICAL SECRETARIAL

These courses are for students who wish to prepare for positions as professional medical secretaries in doctors' office, dentists' office, hospitals, clinics, public health departments, research foundations, chemical companies, drug companies, institutions, publishers, and insurance companies. These courses include a combination of general education, technical training, and skill-building courses which provide a high degree of occupational competence.

A minimum of 100 hours must be completed for graduation.

<b>FIRST QUARTER</b>		Fundamentals of	
Typewriting	VTI S 101a-3	Business	VTI B 126-3
Shorthand	VTI S 104a-6	English Composition	GSD 102-3
English Composition	GSD 101-3		
Secretarial Accounting	VTI B 104-5	<b>FOURTH QUARTER</b>	
<b>SECOND QUARTER</b>		Typewriting	VTI S 205a-3
Typewriting	VTI S 101b-3	Shorthand	VTI S 290a-6
Shorthand	VTI S 104b-6	Culture, Society and	
Business Correspondence	VTI G 101-3	Behavior	GSB 201c-3
Oral Communication of		Calculating Machines	VTI K 101a-3
Ideas	GSD 103-3		
<b>THIRD QUARTER</b>		<b>FIFTH QUARTER</b>	
Typewriting	VTI S 101c-3	Medical Shorthand	VTI S 225a-6
Shorthand	VTI S 104c-6	Business Law	VTI B 226a-4
Filing and Duplicating	VTI S 107-3	Introduction to	
		Physiology	VTI G 141-5
		Job Orientation	VTI X 201-2



**SIXTH QUARTER**

Medical Shorthand	VTI S 225b-6
Typewriting	VTI S 205b-3
Secretarial Office Procedures	VTI S 223-5
Political Economy	GSD 211b-4

**RECOMMENDED ELECTIVES**

Accounting	VTI B 101a-6
Office Administration & Supervision	VTI B 227-5
Automatic Data Processing Machines	VTI E 101a-3
Data Processing Mathematics	VTI E 100-5

**COOPERATIVE RETAILING**

Cooperative Retailing is a merchandising program consisting of eight quarters. There are six quarters of class room instruction and two quarters of college-credit work experience. The students must work in geographic areas that employ sufficient numbers to warrant efficient follow-up.

The program offers an opportunity for training in the areas of apparel, hardline, food, or other specialty lines.

One of the unique features of this program is the learning that results from two quarters of on-the-job work experience.

The merchandising organizations that cooperate with the University provide job experience and other educational opportunities. The on-the-job training helps to assure the learner of up-to-date merchandising information and skills.

In order for an organization to qualify as a participant in Cooperative Retailing, it must agree to furnish the type of training that will meet established standards set by the school and approved by representatives of the merchants served.

Students that have satisfactorily completed the first three quarters are eligible for placement. Placement is a joint responsibility of the student and the school. Students will enroll, submit weekly reports, participate in seminars and complete assigned term papers before receiving college credit for Cooperative work experience.

Students may enter Cooperative Retailing in the fall, winter, or summer quarters. The program requires 113 quarter hours to complete and takes two calendar years.

**FIRST QUARTER**

Introduction to Retailing	VTI R 124-4
Product Analysis	VTI R 176-3
Product Information Laboratory	VTI R 177a-5
English Composition	GSD 101-3
Sales Promotion	VTI R 207b-2

**SECOND QUARTER**

Product Information Laboratory	VTI R 177b-5
Culture, Society, and Behavior	GSB 201c-3
Political Economy	GSB 211a-4
English Composition	GSD 102-3
Job Orientation	VTI X 201-2

**THIRD QUARTER**

Salesmanship	VTI R 127-3
Retail Mathematics	VTI R 179-5
Oral Communication of Ideas	GSD 103-3
Merchandising Principles	VTI R 205-4

**FOURTH QUARTER**

Cooperative Work Experience	VTI R 201-8
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**FIFTH QUARTER**

Cooperative Work Experience	VTI R 201-8
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**SIXTH QUARTER**

Record and Statistics	VTI R 206-5
Personnel Management	VTI R 227-3

Calculating Machines	VTI K 101a-3	Marketing Problems	VTI R 215-4
Technical Writing	VTI G 102-3	Retail Store Organization	
Elective	-2	and Management	VTI R 224-4
		Labor Management	
		Relations Problems	VTI G 232-4
SEVENTH QUARTER			
Sales Promotion	VTI R 207a-4	RECOMMENDED ELECTIVES	
Fashion Merchandising	VTI R 208b-2	Fundamentals of	
Business Law	VTI B 226a-4	Business	VTI B 126-3
Retail Credits and		Office Administration	
Collections	VTI R 280-3	and Supervision	VTI B 227-5
Culture, Society, and		Salesmanship	VTI R 127a-3
Behavior	GSB 201b-3	Salesmanship	VTI R 127b-3
		Typewriting	VTI S 101a-3
EIGHTH QUARTER		All General Studies Courses	
Fashion Merchandising	VTI R 208a-4		

## CERTIFICATE PROGRAMS IN BUSINESS

Four academic quarters are normally required to complete the one-year certificate programs in business. They are intensive programs and only provide minimum training for an initial position in the business field.

### BOOKKEEPING-CLERICAL

Major emphasis is placed on training which will enable students who desire an intensive training plan of relatively brief duration which will equip him with the necessary skills for gainful employment in bookkeeping and general clerical areas of business.

A minimum of 65 credit hours must be completed for graduation.

FIRST QUARTER		Calculating Machines	VTI K 101b-3
Data Processing		English	GSD 101b-3
Mathematics	VTI E 100-5	Oral Communications	
Calculating Machines	VTI K 101a-3	of Ideas	GSD 103-3
Typewriting	VTI S 101a-3	FOURTH QUARTER	
Fundamentals of		Accounting	VTI B 101c-4
Business	VTI B 126-3	Office Administration	
English	GSD 101-3	& Supervision	VTI B 227-5
SECOND QUARTER		Culture, Society and	
Accounting	VTI B 101a-6	Behavior	GSB 201c-3
Typewriting	VTI S 101b-3	Political Economy	GSB 211b-4
Clerical Procedures	VTI B 100-3	RECOMMENDED ELECTIVES	
Filing and Duplicating	VTI S 107-3	Calculating Machines	VTI K 101c-3
THIRD QUARTER		Typewriting	VTI S 205a-3
Accounting	VTI B 101b-5	Business Law	VTI B 226a-4
Typewriting	VTI S 101c-3	Punched Card	
		Preparation	VTI B 109-3

### STENOGRAPHIC

Four academic quarters are normally required for this program. It is an intensive program which provides only the minimum training for an initial stenographic position in business.

A minimum of 65 hours must be completed for graduation.



**FIRST QUARTER**

Typewriting	VTI S 101a-3
Shorthand	VTI S 104a-6
English Composition	GSD 101-3
Fundamentals of Business	VTI B 126-3

**SECOND QUARTER**

Typewriting	VTI S 101b-3
Shorthand	VTI S 104b-6
Calculating Machines	VTI K 101a-3
English Composition	GSD 102-3

**THIRD QUARTER**

Typewriting	VTI S 101c-3
Filing and Duplicating	VTI S 107-3
Culture, Society, and Behavior	GSB 201c-3

Political Economy	GSB 211b-4
Secretarial Accounting	VTI S 104-5

**FOURTH QUARTER**

Typewriting	VTI S 205a-3
Shorthand	VTI S 104c-6
Oral Communications of Ideas	GSD 103-3
Secretarial Office Procedures	VTI S 223-5

**RECOMMENDED ELECTIVES**

Data Processing	
Mathematics	VTI E 100a-5
Typewriting	VTI S 205b-3
Calculating Machines	VTI K 101b-3
Shorthand	VTI S 209a-6

**PROGRAMS IN TECHNOLOGY**

Technology programs at the Vocational-Technical Institute are, like the business programs, of two types: (1) two-year programs leading to the Associate in Technology degree, and (2) one-year programs each leading to a certificate in cosmetology, practical nursing, or welding.

Each program described on the following pages is arranged by quarter. The arrangement, however, may be modified from time to time to meet the continually increasing demands of industry and business for technicians in a variety of areas.

The courses are taught by instructors who have had industrial experience in their respective fields in addition to their professional education. The laboratories are equipped with modern instruments and machines comparable to those used in industry and reflecting the needs in technical employment.

**ASSOCIATE IN TECHNOLOGY DEGREE PROGRAMS**

The purpose of the Associate in Technology degree programs is to give the student a broad foundation in special subjects in the technical field, together with sufficient knowledge of theoretical principles to prepare him for successful participation in the industrial world.

The programs also include courses in general education to help the student understand problems encountered in living and working within his community. These programs are six quarters or more in length and require a minimum of 96 to 121 quarter hours.

Graduates are qualified for positions as estimators, technical assistants, draftsmen, engineering aids, commercial artists, factory representatives, and technicians in the fields of architecture, automotive, aviation, building construction, commercial art, dental laboratory, electronics, industrial wood-working, machine drafting and design, machine tool, mortuary science and funeral directing, data processing, and printing.

The technology programs also provide background courses for further study and training for students who intend to become vocational education teachers.

## ARCHITECTURAL TECHNOLOGY

This program provides training in various aspects of the architectural profession. It offers courses of a technical and technically related nature, which provide the basic knowledge required for employment in the field of architecture, generally beginning as a draftsman and affording an opportunity for advancement in such areas as project coordinator, specifications writing, architectural design, structural and mechanical engineering, and architectural supervision.

Several field trips to near-by cities to study historical and contemporary architecture are made each year. Allowance should be made in the student's budget to cover the expense of these trips and for the purchase of small amounts of equipment and supplies.

A minimum of 104 hours must be completed for graduation.

<b>FIRST QUARTER</b>		Materials and Methods	VTI D 250a-4
Architectural Drafting	VTI D 110a-5	Structural Elements	VTI D 258-4
Freehand Architectural Graphics	VTI D 146a-3	Cultural, Society, and Behavior	GSB 201c-3
History of Architecture	VTI D 147-3		
Technical Mathematics	VTI G 107-3 <sup>1</sup>	<b>FIFTH QUARTER</b>	
English Composition	GSD 101-3	Architectural Design	VTI D 221b-4
		Materials and Methods	VTI D 250b-4
		Construction Cost	
<b>SECOND QUARTER</b>		Estimating	VTI D 283-3
Architectural Drafting	VTI D 110b-3	Theory of Structures	VTI D 290a-3
Architectural Design	VTI D 121a-2	Job Orientation	VTI X 201-2
Freehand Architectural Graphics	VTI D 146b-3		
Basic Materials	VTI D 150-3	<b>SIXTH QUARTER</b>	
College Algebra	GSD 114a-3	Architectural Design	VTI D 221c-4
English Composition	GSD 102-3	Materials and Methods	VTI D 250c-4
		Mechanical Equipment	VTI D 254-4
<b>THIRD QUARTER</b>		Theory of Structures	VTI D 290b-3
Architectural Design	VTI D 121b-4	Political Economy	GSB 211b-4
Materials and Methods	VTI D 151-4		
Mechanics and Strength of Materials	VTI D 153-4	<b>RECOMMENDED ELECTIVES</b>	
Introduction to Physical Science	GSA 101a-3	Architectural Rendering	VTI D 246-3
Trigonometry	GSD 114c-3	Fundamentals of Business	VTI B 126-3
		Business Law	VTI B 226-4
<b>FOURTH QUARTER</b>		Business Correspondence	VTI G 101-3
Site Engineering	VTI D 152-2	Labor Management Relations	
Architectural Design	VTI D 221a-4	Problems	VTI G 232-4
		Typewriting	VTI S 101-3

## AUTOMOTIVE TECHNOLOGY

A very low percentage of those employed in automotive service have had formal technical training in their chosen vocation. For the ambitious grad-

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT examination must take VTI G 106-0 prior to taking GSD 114a.



uate, who has the ability and adequate technical training, the automotive service field offers unlimited challenge and opportunity for advancement.

This program offers specialized training in areas such as: steering geometry, wheel balancing, hydraulic and electrical circuitry, automatic transmissions, drive trains, rework and machining of automotive parts, and the use of modern electronic diagnostic equipment for determining carburetion and electrical malfunctions. After the student has been given instruction on laboratory type engines, chassis, etc., each student is assigned to "live" vehicle diagnosis and repair. This allows for the attainment for maximum competency on the part of each trainee.

A minimum of 98 hours is required for graduation.

#### FIRST QUARTER

Automotive Laboratory	
Engines	VTI A 101a-5
Automotive Theory	
Engines	VTI A 125a-5
Technical Drawing	VTI D 175a-3
Technical Mathematics	VTI G 107-3 <sup>1</sup>

#### SECOND QUARTER

Automotive Laboratory	
Brake and Steering	VTI A 101b-5
Automotive Theory	
Brake and Steering	VTI A 125b-5
Introduction to	
Physical Science	GSA 101a-3
English Composition	GSD 101-3

#### THIRD QUARTER

Automotive Laboratory	
Ignition and	
Carburetion	VTI A 101c-5
Automotive Theory	
Ignition and	
Carburetion	VTI A 125c-5
Oral Communication	
of Ideas	GSD 103-3
Basic Applied Physics	VTI G 120-4

#### FOURTH QUARTER

Automotive Laboratory	
Power Option	VTI A 201a-5
Automotive Theory	
Power Option	VTI A 220a-5
Technical Writing	VTI G 102-3
Elective	-3

#### FIFTH QUARTER

Automotive Laboratory	
Power Transmission	
Systems	VTI A 220b-5
Automotive Theory	
Power Transmission	
Systems	VTI A 225b-5
Political Economy	GSB 211b-4
Elective	3

#### SIXTH QUARTER

Automotive Laboratory	
Diagnostic	
Techniques	VTI A 201c-5
Automotive Theory	
Diagnostic	
Techniques	VTI A 220c-5
Culture, Society and	
Behavior	GSB 201c-3
Elective	-3

#### RECOMMENDED ELECTIVES

Metallurgy	VTI M 275b-3 <sup>2</sup>
Oxy-acetylene and	
Arc Welding	VTI W 175-3 <sup>2</sup>
Basic Machine Shop	
Practice	VTI M 175-3 <sup>2</sup>
Manufacturing	
Processes	VTI M 176b-3 <sup>2</sup>
College Algebra	GSD 114a-3
Introduction to Physical	
Science	GSA 101b-3
Labor Management and	
Relations Problems	VTI G 232-4
Typewriting	VTI S 101a-3

### AVIATION TECHNOLOGY

The airlines and general aviation constitutes an industry that requires large organizations staffed by highly skilled technicians. The industry has grown at

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT examination must take VTI G 106 prior to taking VTI G 107.

<sup>2</sup> At least one elective must be taken from this group of recommended electives.

such an unprecedented rate in the last decade that it is now faced with a serious shortage of properly trained aviation technicians. Men are needed who possess a wide range of knowledge and ability which requires training in general education as well as special technical training.

The Aviation Technology program covers the essential elements that are involved in this highly specialized industry. Students are trained for the field of aviation maintenance and operations, aviation electronics and air carrier operations.

Although the Private Pilot flight course is approved by the Federal Aviation Agency (FAA) and is an integral part of the maintenance technician curriculum, students may elect to exclude the flight training.

Upon graduation, the student receives the Associate in Technology degree, and depending on his major field of concentration, is qualified to obtain the Federal Aviation Agency (FAA) Airman Airframe and Powerplant certificate as an A & P maintenance technician, or commercial pilot, and is eligible for the instrument flight rating or the flight engineer written examination.

The Aviation Technology program is located at the Southern Illinois Airport, three miles NNW of the Carbondale campus and three miles ENE of Murphysboro, Illinois.

Students entering the Aviation Technology program for the first time are required to purchase a basic tool kit which costs approximately \$65.00.

Students choosing the Aviation Technology curriculum with flight training will pay, in addition to the regular tuition and fees, a flight charge of \$90.00 per quarter for a total of six quarters. Actual flight training begins during the latter portion of the second year.

A minimum of 109 quarter hours must be completed for graduation.

#### MAINTENANCE TECHNICIAN OPTION

<b>FIRST QUARTER</b>		Powerplant Testing	VTI L 109-4
Aircraft Reciprocating		Technical Writing	VTI G 102-3
Powerplant	VTI L 101-6		
Carburetion & Lubricating		<b>FOURTH QUARTER</b>	
Systems	VTI L 102-6	Fabric-Wood-Doping	VTI L 107-4
Technical Mathematics	VTI G 107-3 <sup>1</sup>	Aerodynamics	VTI L 203-5
English Composition	GSD 101-3	Welding Theory	VTI W 125a-5
		Oxy-Acetylene & Electric	
<b>SECOND QUARTER</b>		Arc Welding	VTI W 175-3
Aircraft Electricity,		Oral Communication	
Generator-Alternator	VTI L 103-6	of Ideas	GSD 103-3
Propellers	VTI L 104-5		
Aircraft Instruments	VTI L 105-4	<b>FIFTH QUARTER</b>	
Technical Drafting	VTI D 175-3	Aircraft Hydraulics	VTI L 204-5
		Pressurization, Air	
<b>THIRD QUARTER</b>		Conditioning	
Aircraft Ignition-Starting		Systems	VTI L 205-3
Systems	VTI 106-5	Metal and Processing	VTI L 206-4
Jet Propulsion		Radio Operation and	
Powerplant	VTI L 108-6	Installation	VTI L 217-1

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT will be required to take VTI G 106 and VTI G 107.



Culture, Society, and Behavior	GSB 201c-3	Labor Management Relations Problems	VTI G 232-4
		Political Economy	GSB 211b-4
SIXTH QUARTER			
Weight & Balance and Inspection	VTI L 209-6	RECOMMENDED ELECTIVES	
Aircraft Fuel Systems	VTI L 208-2	Private Pilot Flying	VTI L 230-3
Jet Transport Aircraft Systems	VTI L 220-3	Business Law	VTI B 226-4
		Record Keeping	VTI B 229-2
		Salesmanship	VTI R 127-3

## PROFESSIONAL PILOT OPTION

This program is fully approved by the Federal Aviation (FAA) under approval No. 4624 as an Airframe and Powerplant technician school, and under approval No. C-19-21 as a Flight School. It combines the aviation maintenance (Option I) with Commercial Pilot flight training, Instrument Flight and general education. Upon completion of the program, the student is also qualified to obtain the Federal Aviation Agency (FAA) Airman A & P Certificate as a maintenance technician, Commercial Pilot, Instrument Flight rating, and is eligible for the Flight Engineer written examination.

A minimum of 106 quarter hours must be completed for graduation.

FIRST QUARTER		Advanced Flight	VTI L 233-3
Aircraft Reciprocating Powerplant	VTI L 101-6	Oral Communication of Ideas	GSD 103-3
Carburetion & Lubricating Systems	VTI L 102-6	Political Economy	GSB 211b-4
Private Pilot Flying	VTI L 230-3	SIXTH QUARTER	
English Composition	GSD 101-3	Aircraft Hydraulics	VTI L 204-5
		Pressurization, Air Conditioning Systems	VTI L 205-3
SECOND QUARTER		Metal and Processing	VTI L 206-4
Aircraft Electricity		Instrument Flight	VTI L 234-3
Generator-alternator	VTI L 103-6	Culture, Society & Behavior	GSB 201c-3
Propellers	VTI L 104-5		
Aircraft Instruments	VTI L 105-4	SEVENTH QUARTER	
Technical Mathematics	VTI G 107-3	Weight & Balance and Inspection	VTI L 209-6
		Aircraft Fuel Systems	VTI L 208-2
THIRD QUARTER		Jet Transport Aircraft Systems	VTI L 220-3
Aircraft Ignition-Starting Systems	VTI L 106-5	Labor Management Relations Problems	VTI G 232-4
Jet Propulsion		Elective	-3
Powerplant	VTI L 108-6		
Powerplant Testing	VTI L 109-4	RECOMMENDED ELECTIVES	
Basic Flight	VTI L 231-3	Culture, Society, & Behavior	GSB 201a-3
		Culture, Society, & Behavior	GSB 201b-3
FOURTH QUARTER		Political Economy	GSB 211a-4
Technical Drafting	VTI L 175-3	Business Law	VTI B 226-4
Technical Writing	VTI L 102-3	Political Economy	GSB 211b-4
Intermediate Flight	VTI L 232-3	Salesmanship	VTI R 127-3
Welding	VTI W 125a-5		
Elective	-3		
FIFTH QUARTER			
Fabric-Wood-Doping	VTI L 107-4		
Aerodynamics	VTI L 203-5		

# AVIATION ELECTRONICS OPTION

This two-year program is to provide the student with the necessary knowledge and skills for employment in many areas of the Aviation Industry.

Emphasis is placed upon the fundamental theories, principles, mathematics, and their applications in the field of electronics. It is recommended that students have a strong background in high school mathematics and science.

The following expenditures will be required of the students other than their regular tuition and fees:

1. All students will be required to take the Second Class F.C.C. license examination, costing \$7.
2. Each student will be required to have basic tools, which are worth about \$15 to \$20.
3. Workbooks will also be required to be purchased from time to time for laboratory courses, with approximate cost of \$10.

The first four quarters of the curriculum are offered on the VTI campus and the last two quarters (fifth and sixth) are offered in the Aviation Technology building at the Southern Illinois Airport.

A minimum of 107 hours must be completed for graduation.

## FIRST QUARTER

Electronic Laboratory— AC, DC	VTI T 101a-7
Electronic Theory— AC, DC	VTI T 125a-5
College Algebra	GSD 114a-3 <sup>1</sup>
Introduction to Physical Science	GSA 101a-3

## SECOND QUARTER

Electronic Laboratory— Vacuum Tube and Transistors	VTI T 101b-7
Electronic Theory— Vacuum Tube and Transistors	VTI T 125b-5
Introduction to Physical Science	GSA 101b-3
Trigonometry	GSD 114c-3

## THIRD QUARTER

Electronic Laboratory— Transmitter and Receiver	VTI T 101c-7
Electronic Theory— Transmitter and Receiver	VTI T 125c-5
English Composition	GSD 101-3
Applied Calculus	VTI G 118-3

## FOURTH QUARTER

Transistor Laboratory	VTI T 201a-5
Transistor Theory	VTI T 225a-5
Federal Communications Commission License	VTI T 228-3
Electives	-3

## FIFTH QUARTER

Aircraft Communications and Navigation Systems	VTI L 251a-3
Avionics Laboratory I	VTI L 251b-9
Aircraft Integrated Flight Systems	VTI L 252a-3
Avionics Laboratory II	VTI L 252b-3

## SIXTH QUARTER

Aircraft Auto Flight Controls & Instrumentation Systems	VTI L 253a-3
Avionics Laboratory III	VTI L 253b-3
Airborne Radar Systems	VTI L 254a-3
Avionics Laboratory IV	VTI L 254b-3
Culture, Society, and Behavior	GSB 201b-3
Political Economy	GSB 211b-4

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT examination must take VTI G 106-0 prior to taking GSD 114a.



## BUILDING CONSTRUCTION TECHNOLOGY

These courses provide training which will enable the individual to qualify for positions of greater opportunity and responsibility after relatively short periods of apprenticeship or trade experience in the fields of construction supervision, cost estimating, management, and building construction.

Field trips to nearby cities to study and observe various types of construction are made each school year. Allowance should be made for the purchase of small amounts of equipment and supplies.

A minimum of 107 hours must be completed for graduation.

<b>FIRST QUARTER</b>			
Architectural Drafting	VTI D 110-5	Mechanical Services for	
Freehand Architectural		Residential Building-	
Graphics	VTI D 146-3	Sanitary	VTI D 265-2
History of Architecture	VTI D 147-3	Production Woodworking-	
Technical Mathematics	VTI G 107-3	Light Frame	
English Composition	GSD 101-3	Construction	VTI F 201a-5
<b>SECOND QUARTER</b>		<b>FIFTH QUARTER</b>	
Architectural Design	VTI D 121-4	Construction	VTI D 210-3
Basic Materials of		Mechanical Services for	
Construction	VTI D 150-3	Residential Building-	
Wood Technology	VTI F 128-4	Electrical	VTI D 265-2
Culture, Society,		Construction Cost	
Behavior	GSB 201c-3	Estimating	VTI D 283-3
College Algebra	GSD 114a-3	Production Woodworking—	
		Cabinet and Millwork	VTI F 101b-5
		Production Woodworking—	
		Prefabrication	VTI F 201c-5
<b>THIRD QUARTER</b>		<b>SIXTH QUARTER</b>	
Materials and Methods		Construction	VTI D 210-3
of Construction	VTI D 151-4	Business Law	VTI B 226-4
Mechanics and Strength		Wood Finishing	VTI F 129-3
of Materials	VTI D 153-4	Labor Management	
Production Woodworking-		Relations Problems	VTI G 232-4
Machines	VTI F 101a-5	Political Economy	GSB 211b-4
Introduction to Physical			
Science	GSA 101-3		
Trigonometry	GSD 114c-3		
<b>FOURTH QUARTER</b>		<b>RECOMMENDED ELECTIVES</b>	
Construction	VTI D 210-3	Theory of Structures	VTI D 290-3
Materials and Methods		Lumber Seasoning	VTI F 130-3
of Construction	VTI D 250-4	Lumber Grading	VTI F 131-2
Structural Elements	VTI D 258-4	Business Correspondence	VTI G 101-3
		Calculating Machines	VTI K 101-3
		Typewriting	VTI S 101-3

## DENTAL LABORATORY TECHNOLOGY

A dental technician is an individual trained and educated to perform those phases of the dental laboratory procedures required in the fabrication of dental prosthetic appliances. He may work in a licensed dentist's office, or he may find employment in an approved dental laboratory. Each student is required to purchase a kit of instruments, which will total approximately \$100. This in addition to regular university fees.

This program has been designed to meet the standards established by

the Council on Dental Education and the Council on Dental Trades and Laboratories of the American Dental Association. It has been fully approved by the accrediting agency of the Association. Applicants are required to take a Dental Technology Aptitude Test during Registration Week of the fall or winter quarter at the Vocational-Technical Institute's Dental Technology Laboratory.

A minimum of 103 quarter hours must be completed for graduation.

#### FIRST QUARTER

Dental Prosthetics Laboratory  
Tooth Form VTI Y 101a-6  
Dental Prosthetics Theory  
Tooth Form VTI Y 125a-3  
Technical Mathematics VTI G 107-3<sup>1</sup>  
English Composition GSD 101-3

#### SECOND QUARTER

Dental Prosthetics Laboratory  
Partial Dentures VTI Y 101b-6  
Dental Prosthetics Theory  
Partial Dentures VTI Y 125b-3  
Science of Dental  
Materials VTI Y 113a-3  
Oral Anatomy VTI Y 128-2  
Introduction to Physical  
Science GSA 101a-3

#### THIRD QUARTER

Dental Prosthetics Laboratory  
Complete Dentures VTI Y 101c-6  
Dental Prosthetics Theory  
Complete Dentures VTI Y 125c-3  
Introduction to  
Physiology VTI G 141-5  
Introduction to  
Chemistry VTI G 115-3

#### FOURTH QUARTER

Crown and Bridgework Lab  
Individual Cast  
Restorations VTI Y 201a-6  
Crown and Bridgework Theory  
Individual Cast

Restorations VTI Y 225a-3  
Metallurgy VTI M 275-3  
Culture, Society, and  
Behavior GSB 201c-3  
Oral Communication of  
Ideas GSD 103-3

#### FIFTH QUARTER

Crown and Bridgework  
Lab VTI Y 201b-6  
Crown and Bridgework  
Theory VTI Y 225b-3  
Technical Writing VTI G 102-3  
Political Economy GSB 211b-4  
Salesmanship VTI R 127-3

#### SIXTH QUARTER

Crown and Bridgework Lab  
Ceramics and Precision  
Attachments VTI Y 201c-6  
Crown and Bridgework Theory  
Ceramics and Precision  
Attachments VTI Y 225c-3  
Professional Ethics VTI X 202-2  
Fundamentals of Business VTI B 126-3  
Elective -3

#### RECOMMENDED ELECTIVES

Record Keeping VTI B 229-2  
Calculating Machines VTI K 101a-3  
Typewriting VTI S 101-3  
Introduction to Physical  
Science GSA 101b-3  
College Algebra GSD 114a-3  
Welding Theory Oxy-  
Acetylene VTI W 125a-3

### ELECTRONICS TECHNOLOGY

The purpose of Electronics Technology is to provide the student with the necessary knowledge and skills for employment in many areas of industrial electronics, computer electronics, entertainment electronics, and communications.

Emphasis is placed upon the fundamental theories, principles, mathematics, and their applications in the field of electronics. It is recommended

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT examination must take VTI G 106-0 prior to taking VTI G 107-3.



that students have a strong background in high school mathematics and science.

The following expenditures will be required of the students other than their regular tuition and fees:

1. All students will be required to take the Second Class F.C.C. license examination, costing \$7.
2. Each student shall be required to have basic tools, which are worth about \$15 to \$20.
3. Workbooks will also be required to be purchased from time to time for laboratory courses, with approximate cost \$10.

A minimum of 103 hours must be completed for graduation.

<b>FIRST QUARTER</b>		Transistor Theory	VTI T 225a-5
Electronic Laboratory—		Federal Communications	
AC, DC	VTI T 101a-7	Commission License	VTI T 228-3
Electronic Theory—		Technical Writing	VTI G 102-3
AC, DC	VTI T 125a-5		
College Algebra	GSD 114a-3 <sup>1</sup>	<b>FIFTH QUARTER</b>	
Introduction to Physical		Electronic Laboratory—	
Science	GSA 101a-3	Pulse Circuits and	
		Microwave	VTI T 201b-5
<b>SECOND QUARTER</b>		Electronic Theory—	
Electronic Laboratory—		Pulse Circuits and	
Vacuum Tube and		Microwave	VTI T 225b-5
Transistors	VTI T 101b-7	Industrial Circuits	VTI T 232-3
Electronic Theory—		Culture, Society,	
Vacuum Tube and		and Behavior	GSB 201c-3
Transistors	VTI T 125b-5		
Introduction to Physical		<b>SIXTH QUARTER</b>	
Science	GSA 101b-3	Electronic Laboratory—	
Trigonometry	GSD 114c-3	Service Problems	VTI T 201c-5
		Electronic Theory—	
<b>THIRD QUARTER</b>		Service Principles	VTI T 225c-5
Electronic Laboratory—		Color Television	VTI T 229-3
Transmitter and		Political Economy	GSB 211b-4
Receiver	VTI T 101c-7		
Electronic Theory—		<b>RECOMMENDED ELECTIVES</b>	
Transmitter and		Technical Drafting	VTI D 175-3
Receiver	VTI T 125c-5	Labor Management	
English Composition	GSD 101-3	Relations Problems	VTI G 232-4
Applied Calculus	VTI G 118-3	Salesmanship	VTI R 127-3
		Typewriting	VTI S 101-3
<b>FOURTH QUARTER</b>		Oral Communications	
Transistor Laboratory	VTI T 201a-5	of Ideas	GSD 103-3

### *ELECTRONIC DATA PROCESSING (INDUSTRIAL OPTION)*

This program provides training in the technical skills underlying the operation, and programming of data acquisition and computing equipment as applied to industrial purposes. Punched card preparation, electro-mechanical machines operation, and electronic computers are processes and equipment used by the student who aspires to become a programmer.

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT examination must take VTI G 106-0 prior to taking GSD 114a.

A minimum of 103 hours must be completed for graduation.

**FIRST QUARTER**

Data Processing	
Mathematics	VTI E 100a-5
Automatic Data Processing	
Machines	VTI E 101a-3
Manufacturing	
Processes	VTI M 101a-3
Introduction to Physical	
Science	GSA 101-3
College Algebra	GSD 114a-3 <sup>1</sup>

**SECOND QUARTER**

Technical Drafting	VTI D 175a-3
Automatic Data Processing	
Machines	VTI E 101b-5
Manufacturing	
Processes	VTI M 176b-3
English Composition	GSD 101-3
Trigonometry	GSD 114c-3

**THIRD QUARTER**

Fundamentals of	
Business	VTI B 126-3
Computer Programming	VTI E 103-5
Data Processing	
Applications	VTI E 104-3
Basic Applied Physics	VTI G 120-4
English Composition	GSD 102-3

**FOURTH QUARTER**

Kinematics	VTI D 225-3
Industrial Programming	
via Computers	VTI E 202a-5
Systems Design and	
Development	VTI E 205-5
Technical Writing	VTI G 102-3

**FIFTH QUARTER**

Business Statistics	VTI B 235-4
Strength of Materials	VTI D 226-3
Industrial Programming	
via Computers	VTI E 202b-5
Programming Systems	VTI E 206a-3
Applied Calculus	VTI G 118-3

**SIXTH QUARTER**

Programming Systems	VTI E 206b-7
Data Processing Field	
Project	VTI E 207-3
Culture, Society, and	
Behavior	GSB 201c-3
Political Economy	GSB 211b-4

**RECOMMENDED ELECTIVES**

Accounting	VTI B 101-6
Business Law	VTI B 226-4
Office Administration	
and Supervision	VTI B 227-5

## *FOREST PRODUCTS TECHNOLOGY*

This course of study provides training for technical and supervisory positions in the forest products industries. New developments in wood utilization, pre-fabricated construction, manufacturing and in wood research provide increasing career opportunities. Graduates find employment as specialists in production, seasoning, laminating, and quality control in furniture, millwork and structural components plants. In wood laboratories they perform as research technicians conducting experiments, collecting data, and assisting in analysis and evaluation of test results.

Students will be required to participate in a certain number of field trips for which they will pay their own expenses.

A minimum of 102 hours must be completed for graduation.

**FIRST QUARTER**

Production Woodworking	
Lab—Machines	VTI F 101a-5
Production Woodworking	
Theory—Machines	VTI F 125a-3
Wood Technology	VTI F 128-4
Wood Finishing	VTI F 129-3

English Composition	GSD 101-3
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**SECOND QUARTER**

Production Woodworking	
Lab—Cabinet and	
Millwork	VTI F 101b-5

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT examinations must take VTI G 106-0 prior to taking VTI E 100a-5.



Production Woodworking	
Theory—Cabinet and Millwork	VTI F 125b-3
Woodworking Drafting	VTI D 178-3
Technical Writing	VTI G 102-3
Technical Mathematics	VTI G 107-3 <sup>1</sup>

**THIRD QUARTER**

Production Woodworking	
Lab—Furniture Construction	VTI F 101c-5
Production Woodworking	
Theory—Furniture Construction	VTI F 125c-3
Lumber Grading	VTI F 131-2
Woodworking Drafting	VTI D 179-3
Introduction to Physical Science	GSA 101a-3

**FOURTH QUARTER**

Production Woodworking	
Lab—Light Frame	VTI F 201a-5
Production Woodworking	
Theory—Light Frame	VTI F 225a-3
Wood Preservation	VTI F 232-2
Basic Materials of Construction	VTI D 150-3
Culture, Society, and Behavior	GSB 201c-3

**FIFTH QUARTER**

Production Woodworking	
Lab—Prefabrication	VTI F 201b-5
Production Woodworking	
Theory—Prefabrication	VTI F 225b-3
Lumber Seasoning	VTI F 130-3
College Algebra	GSD 114a-3
Political Economy	GSB 211a-4

**SIXTH QUARTER**

Production Woodworking	
Lab—Manufacturing Processes	VTI F 201c-5
Production Woodworking	
Theory—Manufacturing Processes	VTI F 225c-3
Plant Organization and Operation	VTI F 250-3
Job Orientation	VTI X 201-2
Political Economy	GSB 211b-4

**RECOMMENDED ELECTIVES**

Record Keeping	VTI B 229-2
Business Correspondence	VTI G 101-3
Labor Management	
Relations Problems	VTI G 232-3
Calculating Machines	VTI K 101-3
Typewriting	VTI S 101-3

## *MACHINE DRAFTING AND DESIGN TECHNOLOGY*

This program prepares students for jobs in industry which require knowledge and abilities in drafting and design of a mechanical nature. Graduates work as draftsmen, jig and fixture designers, laboratory technicians, research and development engineering aides, and technical supervisors. With additional experience, they may advance to positions as machine and tool designers, industrial supervisors, tool buyers, production expeditors, cost estimators, and field service representatives.

In the major course, emphasis is placed on graphical communication and problem solving techniques, product and tool design principles and practices, engineering standards, manufacturers' standards, and the selection of methods for efficient and economical production. Other courses in the curriculum are intended to improve the student's ability to communicate in words, to acquaint him with materials and processes of industry, to impart the mathematical skills and scientific knowledge essential for the designer, and to develop understandings of the human relations aspects of our American industrial life.

A minimum of 100 hours must be completed for graduation.

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT examination must take VTI G 106-0 prior to taking VTI G 107-3.

<b>FIRST QUARTER</b>		Political Economy	GSB 211b-4
Graphics	VTI D 101a-7	Elec., Hyd., & Pneumatic Controls	VTI D 127-3
Manufacturing Processes I	VTI M 176a-3	Elective	-3
Technical Mathematics	VTI G 107-3 <sup>1</sup>	<b>SIXTH QUARTER</b>	
English Composition	GSD 101-3	Machine Draft & Design	VTI D 201c-7
<b>SECOND QUARTER</b>		Tool Design	VTI D 227-3
Graphics	VTI D 101b-7	Metallurgy III	VTI M 275c-3
Manufacturing Processes II	VTI M 176b-3	Oral Communication of Ideas	GSD 103-3
College Algebra I	GSD 114a-3	or	
Introduction to Physical Science	GSA 101a-3	Technical Report Writing	VTI G 102-3
<b>THIRD QUARTER</b>		<b>RECOMMENDED ELECTIVES</b>	
Graphics	VTI D 101c-7	Labor Management	
Trigonometry	GSD 114c-3	Relations Problems	VTI G 232-4
Culture, Society, and Behavior	GSB 201c-3	Machine Tool Theory—Engine Lathe and Bench	VTI M 125-3
Basic Applied Physics	VTI G 120-4	Machine Tool Theory—Milling Machines	VTI M 225-3
<b>FOURTH QUARTER</b>		Machine Tool Theory—Precision Measurement	VTI M 125-3
Machine Drafting & Design	VTI D 201a-5	Political Economy	GSB 211a-4
Statics and Strength of Materials	VTI D 226a-2	Machine Tool Laboratory—Engine, Lathe and Bench	VTI M 101-5
Kinematics	VTI D 225-3	Machine Tool Laboratory—Milling Machines	VTI M 201-5
Metallurgy II	VTI M 275b-3	Welding Laboratory—Oxy-Acetylene	VTI W 101-7
Elective	-3	English Composition	GSD 102-3
<b>FIFTH QUARTER</b>		Applied Calculus	VTI G 118-3
Machine Draft & Design	VTI D 201b-5		
Statics and Strength of Materials	VTI D 226b-3		

## TOOL AND MANUFACTURING TECHNOLOGY

This program provides knowledge and abilities for industries requiring engineering technicians. Graduates accept jobs as part programmers of numerical control machines, laboratory technicians, planners, methods and quality control, expeditors, tool and die technicians, tool room technicians, and tool room supervisors.

Emphasis is placed on modern machine tools and accessories, numerical control machines, production set-ups and tooling, jigs and fixtures, dies, and methods for efficient and economical production and manufacture of industrial products and machines.

Also included are courses dealing with the properties of and heat treat-

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT examination must take VTI G 106 prior to taking VTI G 107.



ment of metals, mathematics, technical drawing, technical writing, oral communications, and the human relations aspects of our American industrial life.

A minimum of 99 hours must be completed for graduation.

<b>FIRST QUARTER</b>		Manufacturing	
Machine Tool Laboratory—		Processes II	VTI M 176b-3
Drill Press, Benchwork,		Metallurgy II	VTI M 275b-3
Engine Lathe	VTI M 101a-5	Statics	VTI D 226a-2
Machine Tool Theory—		Basic Applied	
Introduction to Machine		Physics	VTI G 120-4
Tools	VTI M 125a-3		
Technical Mathematics	VTI G 107-3 <sup>1</sup>	<b>FIFTH QUARTER</b>	
Introduction to Physical		Advanced Machine Tool Lab—	
Science	GSA 101a-3	Production	
Technical Drawing	VTI D 175a-3	Machining	VTI M 201b-3
		Advanced Machine Tool Theory—	
<b>SECOND QUARTER</b>		Process Planning	VTI M 225b-3
Machine Tool Laboratory—		Strength of Materials	VTI D 226b-3
Advanced Engine Lathe,		Culture, Society, and	
Shaper, Vertical		Behavior	GSB 201c-3
Mill	VTI M 101b-5	Elective	-3
Machine Tool Theory—			
Machinability of		<b>SIXTH QUARTER</b>	
Metals	VTI M 125b-3	Advanced Machine Tool Lab—	
Technical Drawing	VTI D 175b-3	Adv. Production Machines	
English Composition	GSD 101-3	& Numerical	
College Algebra	GSD 114a-3	Control	VTI M 201c-3
		Advanced Machine Tool Theory—	
<b>THIRD QUARTER</b>		Cost Estimating &	
Machine Tool Laboratory—		Production Scheduling	VTI M 225c-3
Milling Machine		Oral Communications of	
and Grinder	VTI M 101c-5	Ideas or	GSD 103-3
Machine Tool Theory—		Technical Writing	VTI G 102-3
Mill Set-Ups & Grinding		Political Economy	GSB 211a-4
Wheel Safety &		Political Economy	GSB 211b-4
Selection	VTI M 125c-3		
Drafting	VTI D 175c-4	<b>RECOMMENDED ELECTIVES</b>	
Trigonometry	GSD 114c-3	Graphics	VTI D 101-7
		Oxy-Acetylene Lab	VTI W 101-5
<b>FOURTH QUARTER</b>		College Algebra	GSD 114b-3
Advanced Machine Tool Lab—		Applied Calculus	VTI G 118-3
Tool and Die	VTI M 201a-3	Machine Design	VTI D 201-5
Advanced Machine Tool Theory—		English Composition	GSD 102-3
Quality Control &		Metallurgy	VTI M 275c-3
Inspection Practices	VTI M 225a-3		

### *MORTUARY SCIENCE AND FUNERAL SERVICE*

This program is fully accredited by the American Board of Funeral Service Education.

These courses offer thorough and practical training for the profession of funeral directing and mortuary science. Graduates of this program are prepared to take the State examination for licensing. Those who expect to prac-

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT examination must take VTI G 106 prior to taking VTI G 107.

tice in a state other than Illinois should make early contact with the appropriate licensing board of that state.

A minimum of 123 hours must be completed for graduation.

<b>FIRST QUARTER</b>		Oral Communication of Ideas		GSD 103-3
The Funeral:				
History and Customs	VTI U 101a-3			
Introduction to Chemistry	VTI G 115a-3	<b>FIFTH QUARTER</b>		
Culture, Society and Behavior	GSB 201a-3	Restorative Art	VTI U 202-3	
Political Economy	GSB 211a-4	Introduction to Embalming	VTI U 203-3	
English Composition	GSB 101a-3	Pathology	VTI U 205a-3	
		Social Psychology	PSYC 307-4	
		Elective		-3
<b>SECOND QUARTER</b>		<b>SIXTH QUARTER</b>		
The Funeral:		Pathology	VTI U 205b-3	
History and Customs	VTI U 101b-3	Embalming Theory and Practice	VTI U 225a-5	
Embalming Chemistry	VTI U 110-4	Communicable Disease	HEd 300-3	
Culture, Society and Behavior	GSB 201b-3	Principles of Microbiology	MICR 301-5	
Political Economy	GSB 211b-3			
English Composition	GSD 102-3			
<b>THIRD QUARTER</b>		<b>SEVENTH QUARTER</b>		
Accounting	VTI B 101a-6	Psychology of Funeral Service	VTI U 210-3	
Principles of Physiology	GSA 301-4	Embalming Theory and Practice	VTI U 225b-5	
Culture, Society, and Behavior	GSB 201c-3	Mortuary Management	VTI U 250-5	
Public Health, Laws and Regulations	VTI U 208-2	Elective		-3
<b>FOURTH QUARTER</b>		<b>EIGHTH QUARTER</b>		
Business Law	VTI B 226a-4	Funeral Service Internship	VTI U 275-10	
Human Anatomy	PHSL 300-4	Funeral Service Seminar	VTI U 280-2	
Psychology of Personality	PSYC 305-4			

## PRINTING TECHNOLOGY

This program provides training for the rapidly changing printing industry. Employment opportunities have never been greater than they are at the present time for technically trained personnel in the graphic arts industry.

Emphasis is placed on production in both the off-set and the letterpress printing fields. Graduates from this program will be prepared for entrance into the graphics arts industry, composed of printing, publishing, and allied businesses.

A minimum of 98 hours must be completed for graduation.

<b>FIRST QUARTER</b>		Technical Mathematics	VTI G 107-3 <sup>1</sup>
Presswork Laboratory—		English Composition	GSD 101-3
Camera and Offset	VTI J 101a-6		
<b>SECOND QUARTER</b>		Presswork Laboratory—	
Camera and Offset	VTI J 125a-3	Automatic Platen	VTI J 101b-6
Layout and Color Theory	VTI N 135-2		

<sup>1</sup> Students who score below a satisfactory level on the mathematics part of the ACT examination must take VTI G 106-0 prior to taking VTI G 107-3.



Presswork Theory—	
Automatic Platen	VTI J 125b-3
Printing Layout and	
Design	VTI J 153-3
English Composition	GSD 102-3
Elective	-3

**THIRD QUARTER**

Presswork Laboratory—	
Offset and Camera	VTI J 101c-6
Presswork Theory—	
Offset and Camera	VTI J 125c-3
Technical Writing	VTI G 102-3
Culture, Society, and	
Behavior	GSB 201c-3

**FOURTH QUARTER**

Composition Laboratory—	
Linotype, Intertype	VTI J 201a-6
Composition Theory—	
Linotype, Intertype	VTI J 225a-3
Labor, Management	
Relations Problems	VTI G 232-4
Oral Communication of	
Ideas	GSD 103-3

**FIFTH QUARTER**

Composition Laboratory—	
Linotype, Ludlow	VTI J 210b-6
Composition Theory—	
Linotype, Ludlow	VTI J 225b-3
Political Economy	GSB 211b-3
Elective	-3

**SIXTH QUARTER**

Composition Laboratory—	
Letterpress and Offset	
Production	VTI J 201c-6
Composition Theory—	
Letterpress and Offset	
Production	VTI J 225c-3
Estimating and Costs of	
Printing	VTI J 251-3
Business Law	VTI B 226a-4

**RECOMMENDED ELECTIVES**

Business Correspondence	VTI G 101-3
Office Administration and	
Supervision	VTI B 227-5
Economics of Distribution	VTI G 177-2
Salesmanship	VTI R 127-3
Typewriting	VTI S 101-3
Political Economy	GSB 211a-3

## CERTIFICATE PROGRAMS IN TECHNOLOGY

### COSMETOLOGY

Cosmetology is one of the institute training programs under the supervision of the Department of Registration and Education of the State of Illinois. The standards for this program are established by state law and meet State of Illinois requirements as to the total time, teaching staff, equipment, facilities, library, and course content. Students must purchase uniforms and the makeup kit.

A minimum of 57 hours must be completed for graduation.

**FIRST QUARTER**

Cosmetology	
Laboratory	VTI C 101a-7
Cosmetology Theory	VTI C 125a-5
English Composition	GSD 101-3

**SECOND QUARTER**

Cosmetology	
Laboratory	VTI C 101b-7
Cosmetology Theory	VTI C 125b-5
Oral Communication	
of Ideas	GSD 103-3

**THIRD QUARTER**

Cosmetology	
Laboratory	VTI C 101c-7
Cosmetology Theory	VTI C 125c-5
Culture, Society and	
Behavior	GSB 201c-3

**FOURTH QUARTER**

Cosmetology	
Laboratory	VTI C 101d-7
Cosmetology Theory	VTI C 125d-5

**RECOMMENDED ELECTIVES**

Salesmanship	VTI R 127-3
Record Keeping	VTI B 229-2

## PRACTICAL NURSING

The Practical Nurse is a person educated to do nursing for selected convalescent, subacute and chronically ill patients, not requiring the substantial skill, judgment and knowledge acquired in professional nursing. She is prepared to assist the professional nurse in a team relationship, especially in the care of the more acute ill. The Practical Nurse performs under the direction of a registered professional nurse or licensed physician or licensed dentist.

The curriculum of the practical nursing program is approved by the Committee of Nurse Examiners, State of Illinois, Department of Registration and Education. The one year program is divided into three segments. The first quarter of basic nursing consists of an introduction to nursing in the classroom with an orientation to the hospital setting provided in the last six weeks. During the second quarter for a seven week period, the student develops skills in giving complete morning care to one patient and also has an introduction to more advanced skills in nursing in the classroom. The clinical period of 30 weeks in length consists of nursing in five specific areas of nursing under the close supervision of their instructor in local hospitals, and classroom experience concurrent with their special area.

Throughout the year, the student wears the official school uniform. Two classes start each year beginning in the fall and spring quarters. Both men and women are accepted. Plans for admission should be made early for there are entrance requirements to be met before admission. These requirements include a personal interview with the coordinator, satisfactory completion of pretesting, and good health as determined by a physical examination. Graduates of this program are eligible to take the state examination in order to become a Licensed Practical Nurse.

A minimum of 52 credit hours must be completed for graduation.

FIRST QUARTER		Clinical Theory and	
Basic Nursing	VTI P 101-6	Nursing	VTI P 103-6
Nutrition for Practical		THIRD QUARTER	
Nurses	VTI P 131-4		
Health	VTI P 132-5	Clinical Theory and	
		Nursing	VTI P 103-12
SECOND QUARTER		FOURTH QUARTER	
Practical Nursing,		Clinical Theory and	
Role I	VTI P 102-7	Nursing	VTI P 103-12

## WELDING

This program provides training in the use of various types of welding equipment, the welding of mild steel in all positions, machine cutting, hand cutting, testing of welds, and welding of nonferrous metals. Each student is given individual attention in his shop training.

This program has been designed to prepare students for employment as tool room welders, construction welders, job shop welders, and welding inspectors.

The courses as outlined are required for the welding certificate. A minimum of 49 hours must be completed for graduation.



<b>FIRST QUARTER</b>		English Fundamentals	GSD 101-3
Welding Laboratory—		Political Economy	GSD 211b-3
Gas Welding and		<b>THIRD QUARTER</b>	
Cutting Processes	VTI W 101a-5	Welding Laboratory—	
Welding Theory—		Special Application	
Gas Welding and		Welding	VTI W 101c-5
Cutting Processes	VTI W 125a-5	Welding Theory—	
Technical Math	VTI G 107-3	Special Application	
Metallurgy—Welding	VTI M 275a-3	Welding	VTI W 125c-5
		Technical Drafting	VTI D 175a-3
		Metallurgy—Ferrous	VTI M 275b-3
<b>SECOND QUARTER</b>		<b>RECOMMENDED ELECTIVES</b>	
Welding Laboratory—		Record Keeping	VTI B 229-2
Metallic Arc Welding	VTI W 101b-5	Business Correspondence	VTI G 101-3
Welding Theory—		Metallurgy	VTI M 275-3
Metallic Arc Welding	VTI W 125b-5		

## Adult Education

### (Carbondale Campus)

Adult Education has become not a "making up," but a "keeping up" and "going ahead" factor in American society. "All men by nature desire to know," wrote Aristotle, and to help meet this desire the Division of Technical and Adult Education offers a variety of noncredit courses. Any interested group may request assistance in the development of a course to meet its particular needs.

The Division of Technical and Adult Education attempts to meet the fundamental functions of adult education in its performance in our society. These functions are (1) to expand communication skills, (2) to develop in adults the ability and willingness to change in a changing world, (3) to improve human relations, (4) to help adults to participate in, and to be concerned with, the responsibilities of citizenship, (5) to build personal growth for the adult learner, and (6) to provide use of leisure time, to create new interests, and to seek ways of spending time productively.

### TYPICAL COURSES

Adult Education offerings by the Division of Technical and Adult Education encompass a variety of subjects:

Courses in agriculture for farm owners and workers help them improve their operation and ownership. The following are courses which meet once each week for from two to six weeks:

Agronomy	Farm Management
Beef Production	Farm Records
Crop Diseases	Farm Production
Dairy Production	Sheep Production
Egg Grading	Vegetable Growing for Market

There is a growing recognition that creative arts are important in adult education. The following courses and others have been offered in this category.

Art Appreciation	Music Appreciation
Oil Painting	Leathercraft
Portrait Painting	Jewelry
Sketching	Ceramics

Courses in home and family life meet the ever-increasing need and demand of adults. As circumstances change, new courses are added. Courses such as the following are available:

Clothing Construction	Tailoring
Foreign Cooking	Nutritional Weight Control
Home Work Simplification	Party Foods
Interior Decorating	

Demands in business are met through a variety of adult education courses. These range from beginning courses for adults who wish to prepare for initial positions to advanced courses for employed adults who desire promotions. The following are representative courses:

Bookkeeping-Accounting	Payroll Accounting
Calculating Machines	Real Estate Law, Appraisal, and Sales
Certified Professional Secretaries	Retail Management
Refresher	Small Retail Store Problems
Clerical Procedures	Shorthand
Cost Control	Stocks, Bonds, Investments
Filing	

Many adults evidence increased interest in foreign languages, possibly because of more international travel or emphasis to retain native languages. The division meets the interest of adults by offering courses such as these:

Conversational Spanish	Conversational German
Conversational French	

Industry today has an ever-increasing demand for vocational and technical workers to build a stronger nation through increased production. The following courses illustrate how adult education meets the demands of industry:

Machine Tooling	Electricity
Precision Measurement	Machine Drafting
Quality Control	Blueprint Reading for Shop
Welding	Mechanics
Automotive Procedures	Commercial Blueprint Reading
Electronics	

Many courses for labor groups are conducted to help selected adults prepare as apprentices and journeymen. Each course is specifically planned



for the particular trade in cooperation with the local union and the University's Labor Institute. The following courses have been offered:

Blueprint Reading for Building Trades	Plumber Estimating
Carpenter Apprentice Related Training	Refrigeration for Plumbers
Mathematics for Carpenters	Cable Splicing for Electricians
	Welding for Electricians
	Welding for Plumbers

The importance of better use of leisure time in increasing in our modern society. Courses such as the following have been offered by adult education:

Great Books	Photography
Reading Improvement	Home Mechanics
Furniture Reupholstering	Planning for Retirement

The Division of Technical and Adult Education, in cooperation with associations which represent business, industrial, personal service, and public utility groups, offers many special short courses such as the following:

Illinois Bankers School	School of Advanced Cosmetology
Hospital Managers and Accountants	Marine Financing
Restaurant Manager	School for Masters and Mates
Rural Electric Cooperatives	Transportation Sales
Admiralty Law Seminar	Management Seminars
Public Librarians Workshop	

Other noncredit courses to meet the needs evidenced by local groups, local adult education planning committees, and association committees will be planned and offered by the Division of Technical and Adult Education upon request.

## EDUCATIONAL PLANNING COMMITTEES

In many instances, adult education courses are developed through a cooperative plan with representatives from business, industry, and the professions. Representatives of this division and of the group which desires a course plan, organize, and activate the subjects to be offered, select the outstanding instructors, and decide meeting time and place.

A recent development has been the organization and planning of adult education courses in industrial management. These courses have been the result of cooperative planning with representatives from industry and this division. Representative courses are Practical Psychology for Supervisors, Industrial Report Writing, Quality Control, Labor Management Relations, Dielectric Heating, and Metallurgy.

## TEACHING STAFF

The teaching staff in Adult Education is drawn from business, industry, the professions, and the University's academic units. All teaching assignments, which are made as the needs arise, are on a part-time basis.

# Technical and Adult Education

## (Edwardsville Campus)

This office supervises all associate degree programs and noncredit courses offered by the University in the area. The associate degree programs provide college level curricula of shorter duration than the usual four-year programs. The purpose of the noncredit courses is to serve the needs of the community for educational programs that will improve the economic and social standards and provide new interests for business and industry in the community.

### ASSOCIATE DEGREE PROGRAM

The Associate in Business degree is designed to give the student the skills he needs to perform a specific job or type of job. It offers specializations in Accounting, Management, General Office Secretary, Legal Secretary, and Medical Secretary. Courses for each of these specializations are available both during the day or evening. Each specialization may be completed in two years by the full-time student or in four years by the part-time evening student. This program is intended for high school graduates who wish to prepare for a first time full-time job and for adults with some working experience who desire to qualify themselves for advancement in a chosen field or for transfer to a different specialization.

Enrollment is limited to those whose purpose is to acquire the skills necessary for an initial job in the chosen field. If a student should complete the Associate in Business degree and later decide to work for a more advanced degree, his courses would have to be reevaluated at the time by the division granting the degree. This program should not be confused with the first two years of any of the four-year programs offered by other academic units of the University.

### HIGH SCHOOL PREPARATION

It is helpful, though not required, that a student entering the secretarial specializations have taken some typing in high school or elsewhere. Students enrolled in one or more courses in skill subjects, such as shorthand and typewriting, will be assisted by instructors to ensure placement in course sequences at the appropriate skill level.

### ADMISSION

A student must be officially admitted to the University before registering for courses in an Associate degree program. The student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.



Admission policies for undergraduate students are stated on page 3 of this catalog. Inquiries concerning admission should be directed to the Admissions Office at Edwardsville. Applications for admission are accepted at any time during the calendar year but should be initiated at least 30 days prior to the start of the quarter which the student plans to attend.

## ADVISEMENT

At the initial counseling interview the candidate for the associate degree must declare his intention and select his field of concentration and so indicate on the form provided (Student Declaration of Concentration). After the student has completed the Student Declaration of Concentration, advisement will be the responsibility of the Division of Technical and Adult Education.

## PLACEMENT SERVICES

Upon the completion of 80 quarter hours, the associate degree student may register with Placement Services. The student is encouraged to register early to take advantage of the opportunities for interviews with the representatives of various companies. There is no fee for this service.

## GRADUATION

No later than the beginning of a student's last quarter, he must apply for graduation. At this time his courses and grades are reviewed by the Registrar's Office to determine whether the requirements of the University have been met and by the Technical and Adult Education Office to determine whether the requirements for the Associate in Business degree have been met.

## ASSOCIATE IN BUSINESS DEGREE PROGRAM

### ACCOUNTING

These courses offer thorough and practical training for a position as bookkeeper, payroll clerk, junior accountant, or assistant to an accountant or auditor. Positions with governmental agencies and in public accounting are also filled by graduates.

A minimum of 98 hours must be completed for graduation.

#### FIRST QUARTER

Accounting	ACCT 251a-4
Data Processing	
Mathematics	VTI E 100-5
Introduction to Business	
Administration	MGT 170-4
English Composition	GSD 101a-3

#### SECOND QUARTER

Accounting	ACCT 251b-4
Calculating Machines	BSED 341-4
American Government	GOVT 210-4 <sup>1</sup>
Political Economy	GSB 211a-3
English Composition	GSD 101b-3

<sup>1</sup> Or the required examination on the United States Constitution and the State of Illinois Constitution plus a four-hour elective.

THIRD QUARTER

Accounting	ACCT 251c-4
Principles of Economics	ECON 210-5
Business Law I	MGT 371-4
Oral Communication of Ideas	GSD 103-3

FOURTH QUARTER

Intermediate Accounting	ACCT 351a-4
Cost Accounting	ACCT 341-4
Tax Accounting	ACCT 331-4
Business Law II	MGT 372-4

FIFTH QUARTER

Intermediate Accounting	ACCT 351b-4
Advanced Cost Accounting	ACCT 442-4
Corporation Finance	MGT 320-4
Credits and Collections	MKTG 334-4

SIXTH QUARTER

Advanced Accounting	ACCT 453a-4
Auditing	ACCT 456-4
Business Writing	MGT 271-4
Business Organization and Management	MGT 340-4

EXECUTIVE SECRETARIAL

These courses are for students who wish to prepare for positions as professional secretaries in business, industrial, and governmental offices. They include a combination of general education and skill-building courses which provide a high degree of occupational competence. Graduates qualify for positions as private secretaries and executive secretaries as well as for department or field positions in federal or state civil service.

A minimum of 100 hours must be completed for graduation.

FIRST QUARTER

Typewriting	BSGD 201c-3
Shorthand and Transcription	BSGD 221a-4
English Composition	GSD 101a-3
Data Processing	
Mathematics	VTI E 100-5

SECOND QUARTER

Advanced Typewriting	BSGD 304-3
Shorthand and Transcription	BSGD 221b-4
English Composition	GSD 101b-3
American Government	GOVT 210-4 <sup>1</sup>
Culture, Society, and Behavior	GSB 201c-3

THIRD QUARTER

Shorthand and Transcription	BSGD 221c-4
Calculating Machines	BSGD 341-4
Introduction to Business Administration	MGT 170-4
Oral Communication of Ideas	GSD 103-3
Filing and Duplicating	VTI S 107-3

FOURTH QUARTER

Advanced Shorthand and Transcription	BSGD 324a-4
Accounting	ACCT 251a-4
Business Law I	MGT 371-4
Business Writing	MGT 271-4

FIFTH QUARTER

Advanced Shorthand and Transcription	BSGD 324b-4
Business Report Writing	MGT 361-4
Personnel Management	MGT 385-4
Legal Shorthand	VTI S 224-6

SIXTH QUARTER

Records Administration	BSGD 427-4
Office Management	BSGD 407-4
Secretarial Office Procedures	VTI S 223-5
Elective	-3

RECOMMENDED ELECTIVES

Cooperative Secretarial Experience	VTI S 214-5 <sup>2</sup>
Medical Shorthand	VTI S 225a-6
Business Law II	MGT 372-4
General Studies Subjects	

<sup>1</sup> Or the required examination on the United States Constitution and the State of Illinois Constitution plus a four-hour elective.

<sup>2</sup> The five hours of Cooperative Secretarial Experience (VTI S 214) will be required unless the student is employed, or has been employed, in an office approved by the advisor, doing work comparable to that required for credit in the program.



**LEGAL SECRETARIAL**

These courses provide a proper balance in the secretarial skills and in the special and general knowledge a trained legal secretary needs. Graduates may secure positions as legal secretaries with attorneys, judges, legal consultants or legal departments, or may continue their study to become conference or court reporters.

A minimum of 101 hours must be completed for graduation.

**FIRST QUARTER**

Typewriting	BSED 201c-3
Shorthand and	
Transcription or	BSED 221a-4
Stenograph Machines	VTI H 130a-4
English Composition	GSD 101a-3
Filing and Duplicating	VTI S 107-3
Elective	-3

**SECOND QUARTER**

Advanced Typewriting	BSED 304-3
Shorthand and	
Transcription or	BSED 221b-4
Stenograph Machines	VTI H 130b-4
English Composition	GSD 101b-3
Accounting	ACCT 251a-4
American Government	GOVT 210-4 <sup>1</sup>

**THIRD QUARTER**

Shorthand and	
Transcription or	BSED 221c-4
Stenograph Machines	VTI H 130c-4
Introduction to Business	
Administration	MGT 170-4
Calculating Machines	BSED 341-4
Oral Communication	
of Ideas	GSD 103-3

**FOURTH QUARTER**

Medical Shorthand	VTI S 225a-6
Advanced Shorthand and	
Transcription or	BSED 324a-4
Stenograph Machines	VTI H 230a-4
Business Law I	MGT 371-4
Business Writing	MGT 271-4

**FIFTH QUARTER**

Legal Shorthand	VTI S 224-6
Business Law II	MGT 372-4
Advanced Shorthand and	
Transcription or	BSED 324b-4
Stenograph Machines	VTI S 230b-4
Culture, Society,	
Behavior	GSB 201c-3

**SIXTH QUARTER**

Two-Voice Testimony	VTI H 210-4
Jury Charge	VTI H 112-4
Secretarial Office	
Procedures	VTI S 223-5
Records Administration	BSED 427-4

**RECOMMENDED ELECTIVES**

Cooperative Secretarial	
Experience	VTI S 214-5 <sup>2</sup>
Business Report Writing	MGT 361-4
Personnel Management	MGT 385-4
General Studies Subjects	

**MANAGEMENT**

This evening curriculum is designed for adults who have had some experience in work situations. It prepares its participants for positions such as unit supervisor, assistant superintendent, section head, and branch manager of small organizations. Applicants must be at least twenty-five years of age and have at least two years of full-time work experience at the time of entrance into the program.

A minimum of 98 hours must be completed for graduation. This specialization may be completed by the part-time evening student in thirteen quarters.

<sup>1</sup>Or the required examination on the United States Constitution and the State of Illinois Constitution plus a four-hour elective.

<sup>2</sup>The five hours of Cooperative Secretarial Experience (VTI S 214) will be required unless the student is employed, or has been employed, in an office approved by the advisor, doing work comparable to that required for credit in the program.

<b>FIRST QUARTER</b>		<b>SEVENTH QUARTER</b>	
Data Processing		Principles of Marketing	MKTG 230-5
Mathematics	VTI E 100-5	Oral Communication	
Political Economy	GSD 211a-3	of Ideas	GSD 103-3
<b>SECOND QUARTER</b>		<b>EIGHTH QUARTER</b>	
Principles of		Labor Problems	ECON 310-4
Economics	ECON 210-5	Production Management	MGT 380-4
College Algebra	GSD 114a-3		
<b>THIRD QUARTER</b>		<b>NINTH QUARTER</b>	
Introduction to Business		Business Writing	MGT 271-4
Administration	MGT 170-4	Time and Motion Study	MGT 382-4
Introduction to Data		<b>TENTH QUARTER</b>	
Processing	MGT 240-4	Business Law I	MGT 371-4
		Personnel Management	MGT 385-4
<b>FOURTH QUARTER</b>		<b>ELEVENTH QUARTER</b>	
Accounting	ACCT 251a-4	Business Law II	MGT 372-4
English Composition	GSD 101a-3	Small Business	MGT 472-4
<b>FIFTH QUARTER</b>		<b>TWELFTH QUARTER</b>	
Accounting	ACCT 251b-4	Corporation Finance	MGT 320-4
English Composition	GSD 101b-3	Business Report Writing	MGT 361-4
<b>SIXTH QUARTER</b>		<b>THIRTEENTH QUARTER</b>	
Accounting	ACCT 251c-4	American Government	GOVT 210-4 <sup>1</sup>
Business Organization and			
Management	MGT 340-4		

### *M E D I C A L   S E C R E T A R I A L*

These courses are of special interest to young women with good mental and personal traits and a desire to be of service to the community.

Part-time work experience, in addition to technical and general-background training, is provided in the office of a doctor, dentist, or hospital. This experience leads to such positions, in the medical field, as receptionist-secretary, X-ray secretary and record clerk, hospital records clerk, and secretary in the office of a physician, dentist, or hospital.

A minimum of 100 hours must be completed for graduation.

<b>FIRST QUARTER</b>		<b>THIRD QUARTER</b>	
Typewriting	BSED 201c-3	Shorthand and	
Shorthand and		Transcription	BSED 221c-4
Transcription	BSED 221a-4	American Government	GOVT 210-4 <sup>1</sup>
English Composition	GSD 101a-3	Calculating Machines	BSED 341-4
Introduction to Business		Oral Communication	
Administration	MGT 170-4	of Ideas	GSD 103-3
Elective	-3		
<b>SECOND QUARTER</b>		<b>FOURTH QUARTER</b>	
Advanced Typewriting	BSED 304-3	Introduction to	
Shorthand and		Physiology	VTI G 141-5
Transcription	BSED 221b-4	Business Writing	MGT 271-4
English Composition	GSD 101b-3	Advanced Shorthand and	
Filing and Duplicating	VTI S 107-3	Transcription	BSED 324a-4
Business Law I	MGT 371-4	Man's Biological	
		Inheritance	GSA 201a-3

<sup>1</sup>Or the required examination on the United States Constitution and the State of Illinois Constitution plus a four-hour elective.



**FIFTH QUARTER**

Medical Shorthand	VTI S 225a-6
Advanced Shorthand and Transcription	BSED 324b-4
Man's Biological Inheritance	GSA 201b-3
Accounting	ACCT 251a-4

**SIXTH QUARTER**

Medical Shorthand	VTI S 225b-6
Secretarial Office Procedures	VTI S 223-5

Records Administration	BSED 427-4
Culture, Society, Behavior	GSB 201c-3

**RECOMMENDED ELECTIVES**

Cooperative Medical Secretarial Experience	VTI S 218-5 <sup>2</sup>
Business Law II	MGT 372-4
Legal Shorthand	VTI S 224-6
Personnel Management	MGT 385-4
Business Report Writing	MGT 361-4
General Studies Subjects	

## Adult Education

### (Edwardsville Campus)

The fundamental purposes of adult education are to help strengthen communication skills; help adults increase their ability and desire to change in a changing world; to improve human relations; to participate as responsible citizens; to seek personal growth; and to develop creativity in leisure time and seek ways of spending time productively.

### PROGRAMS

#### *INDUSTRIAL MANAGEMENT*

Designed to give present and future foremen and supervisors some of the skills and information they need for improved job performance, this program of noncredit evening courses leads to the two-year certificate in industrial management. Successful completion of eight of the following courses is required. They are offered once each week for ten weeks.

Industrial Safety	Material Handling
Practical Psychology for Supervisors I and II	Quality Control for Foremen
Effective Speaking for Supervisors I and II	Basic Industrial Metallurgy I and II
The Supervisor and His Job	Industrial Engineering for Foremen
Labor-Management Relations	Motion Analysis and Time Study
Current Labor Law	Reading Improvement
Industrial Report Writing	Effective Management
Economics of Industry	Logic
Cost Control for Foremen	Illinois Labor Law
English Review	Basic Supervision in the Meat Industry
	Creative Thinking

<sup>2</sup> The five hours of Cooperative Medical Secretarial Experience (VTI S 218) will be required unless the student is employed, or has been employed, in an office approved by the advisor, doing work comparable to that required for credit in the program.

### *IN - P L A N T*

On request from industry, courses from the industrial management program may be offered in-plant to accommodate foremen or supervisors who cannot attend the evening program because of shift work or other reasons. Special programs may be developed to meet the unique problems of a particular industry or present courses or programs may be adapted for presentation in-plant. Consultation and advice on the total training needs of plants is given on request.

In addition to adaptations of courses from the industrial management program, the following courses have been presented:

Creative Literature	Management Problems
Metallurgy of Steelmaking	Management Planning
Coaching and Counseling	Management Practices
Coaching for Staff Supervisors	Economic Background for Citizenship
Safety Programs	Speech Techniques
Safety Meeting Procedures	Foremen Development

### *T R A F F I C   M A N A G E M E N T*

The traffic management program is a course of study whose purpose is to prepare candidates for the examinations leading to certification by the American Society for Traffic and Transportation and furnish a complete working knowledge of Interstate Commerce Law. This is a certificate program.

Noncredit courses included in the program are:

Rates and Tariffs	Interstate Commerce Law I, II & III
Traffic Management	

Credit courses included in the program are:

Management 170-4, Introduction to Business Administration  
Government 210-4, American Government  
Marketing 230-5, Principles of Marketing  
Economics 210-5, Principles of Economics  
General Studies, GSB 354-3, Industrial Economic Geography  
General Studies, GSB 211a-3, Political Economy  
Management 340-4, Business Organization and Management  
Marketing 341-4, Transportation

### *D E V E L O P M E N T   P R O G R A M   F O R   M I D D L E M A N A G E M E N T*

This is a program for department heads, superintendents, general foremen, and the heads of small businesses which are production-oriented. These men meet for dinner once per week having a one-and-one-half-hour discussion with a recognized authority on a given subject before dinner and a different one after dinner. The subjects are grouped into four broad categories and are tied together by a coordinator into an integrated program. Categories are fundamentals of management, manpower management, business conditions and the manager, and administrative policy and procedure. Enrollment is limited.



### *THE ADVANCED DEVELOPMENT PROGRAM FOR MIDDLE MANAGEMENT*

This program is designed only for those persons who have completed Southern Illinois University's Development Program for Middle Management. It is a fifteen session program that provides further development in management skills through the case study method.

The cases involve firing line problems actually faced by managers, line and staff, at the middle management levels of the organization. Middle-management problems are stressed; however, some cases involve viewpoints from top management.

All cases for the program are carefully chosen to provide a wide range of management problems and situations. Students engage in the analytical process of appraising the functional areas of the business, examining the internal and external factors, and inventorying the skills and resources of the firm, thus they gain an insight into the many basic problems faced by middle management.

The program is based upon the premise that the most characteristic task of the manager is that of making decisions. The University believes that the basic purpose of any program of managerial development should be not only to comprehend established principles and concepts of professional management but also to develop among participants the frame of reference, the mental set, the perspective, and the method of thinking needed to cope effectively with the value premises present in executive decisions.

By the students applying knowledge gained in the middle management program to actual business problems, promoting the exchange of ideas and experiences among each other and improving and refining the decision-making ability of each participant, the development of managerial skills can be achieved.

### *SPECIAL COURSES, PROGRAMS AND CONFERENCES*

To meet special needs for adult education, additional courses are sometimes developed which cannot be classified as industrial management, in-plant, or technical.

One category of these miscellaneous programs is radio-television. The following subjects have been covered in this category.

Goals for Americans	WIBU, Belleville
Reading Improvement	WSIU-TV, Carbondale, and KETC-TV, St. Louis

In addition, the Reading Improvement course has been taped for future presentation.

Workshops are arranged on occasion. The following are representative of the workshops presented in the past:

Junior Art Workshop	Waterworks Operators Workshop
Summer Theater Workshop	Home Helpers Workshop

Special purpose programs help organizations meet their specific needs.

Usually these programs are specially developed for the unique requirements of individual organizations. Typical are:

- |  |   |
|--|---|
| One Day Conference for Small Business                  | Training Employees on the Job—City of Alton |
| One Day Conference on Coaching and Counseling          | Parent-Child Relationships                  |
| Conference Leadership—League of Women Voters           | Creative Selling                            |
| One Day Conference on Industrial Safety                | Union Leadership—United Steel Workers       |
| Student Courses—English Review and Reading Improvement | Seminar for Office Supervisors              |
|  | Student Leadership Training Program         |





# Course Descriptions

2

(Carbondale Campus)

## VTI A

**101–15 (5,5,5,) Automotive Laboratory.** (a) Automotive engines. Disassembly and assembly procedures on laboratory units. (b) Principles of brakes and steering learned in 125b are applied on laboratory units and, later, on live vehicles. (c) Ignition and carburetion. The repair and testing of electrical and fuel units. Must be taken in a,b,c or b,a,c, or a,c,b sequence, concurrently with a corresponding section of 125.

**125–15 (5,5,5) Automotive Theory.** (a) Internal combustion engine theory. (b) Chassis and brake systems, covering brake theory and factors of steering geometry. (c) Ignition and carburetion. Must be taken in a,b,c or b,a,c or a,c,b sequence, concurrently with a corresponding section of 101.

**201–15 (5,5,5) Automotive Laboratory.** (a) Accessories, repair and adjustments of climate control, power windows, seats, antennas, automatic lighting, signaling and speed control devices. (b) Power Transmissions Systems, a study of adjustment and service problems and procedures concerning standard, over-drive and automatic transmissions, drive lines and differentials. (c) Diagnostic Techniques, application of specialized analytical servicing techniques utilizing the chassis dynamometer, oscilloscope, and other electronic diagnostic equipment. Prerequisite: VTI A 101c, and 125c. May be taken in a,b,c; b,a,c; or c,b,a order. Must be taken concurrently with appropriate sequence of VTI A 220.

**220–11 (3,5,3) Automotive Theory.** (a) Accessories, theory of operation of air-conditioning, power accessories, automatic light and speed devices and their complementary controls. (b) Power transmission systems, theory of operation of standard and automatic transmissions, drive lines and differential assemblies. (c) Diagnostic Techniques, theory of application and interpretation of readings taken from diagnostic equipment such as the chassis dynamometer and the oscilloscope. Must be taken concurrently with appropriate section of VTI A 201.

## VTI B

**100–3 Clerical Procedures.** Nonstenographic skills in record-keeping are practiced by preparing stock records, perpetual inventories, invoices, bills of lading, checks, receipts, and statements; by auditing invoices; and by proving petty cash.

**101–15 (6,5,4) Accounting.** (a) Basic structure of accounting—ledger, journal, posting, trial balance, accounting cycle, sales and cash receipts, purchase and cash payments, notes, deferrals, and accruals, accounts receivable, inventory and plant assets. (b) Accounting systems, concepts, and controls. Payroll and sales taxes, partnership, corporation (nature and formation), capital stock, earning and dividend, departments and branch, manufacturing analysis, and interpretation of financial statements. (c) Control accounting—manufacturing and process cost, job order, budgetary control standard costs. Income taxes. Cost relationship for management, special analysis and internal reports and other reports. Must be taken in a,b,c sequence.

**104–5 Secretarial Accounting.** Basic principles of accounting from the viewpoint



of the secretary. The accounts of private individuals, professional men, institutions, and small business firms of various types are studied.

**109-3 Punched Card Preparation.** The functions and operations of punched card equipment. Card punching and verifying.

**126-3 Fundamentals of Business.** This survey of business services provides a general knowledge of the modern business world and a basis for determining occupational possibilities and requirements.

**130-4 Job Cost Accounting.** Relates cost accounting to management for control; general principles involved in construction of a cost system; distribution of cost materials, labor and burden; cost record; operating reports; joint and by-products cost and budgetary control. Prerequisite: 101c or concurrently.

**201-8 (4,4) Accounting.** An advanced study of: (a) Accounting records, merchandising and manufacturing accounts, end-of-year procedures, corrections of profits of prior periods, accounting statement, current assets and long-term investments.

(b) Tangible and intangible fixed assets, liabilities, reserves, statement of application of funds, analysis of working capital, analytical and comparative per cents and ratios. Must be taken in a,b sequence. Prerequisite: 101c.

**204-4 Process Cost Accounting.** An advanced study of process cost accounting, costing by-products and joint products, budgeting, estimated cost system, and standard cost, cost control and analysis. Prerequisite: 130.

**226-8 (4,4) Business Law.** (a) Introduction to the history and philosophy of law, contract law, and agency law. (b) Negotiable instruments law, sales law, suretyship law. Must be taken in a,b sequence.

**227-5 Office Administration and Supervision.** Principles of management as applied to office work. Emphasis on the role of the office in business management; office organization; physical facilities of the office; office services, procedures, standards, and controls; and records management. Prerequisite: 126.

**229-2 Record Keeping.** The complete cycle of records necessary in running a business in buying, selling, inventories, payroll, and stock control.

**230-5 Auditing.** Auditing principles, standards, and procedures and the short-form report of independent auditors are emphasized. Audit programs and relationship to internal control. Aim to develop perspective and techniques of auditors. Consideration given to authoritative pronouncements of the American Institute of Certified Public Accountants and the Securities Exchange Commission. Prerequisite: 204.

**233-5 Federal Taxes.** Study of current income tax laws and regulations as they relate primarily to individuals (and, incidentally, to partnerships and corporations). Preparation of tax returns and laboratory problems emphasizing the individual taxpayer. Prerequisite: 101c.

**235-4 Business Statistics.** Collection, tabulation, and graphic presentation of data, averages and index numbers, economic trends, cycles, correlation, and application. Prerequisite: 101a, VTIE 100.

**275-4 Credits and Collections.** Organization and operation of the credit department including sources and analysis of credit information, collection methods, and correspondence. Credit management emphasized. Prerequisite: 101c.

## *VTI C*

**101-28 (7,7,7,7) Cosmetology Laboratory (a,b,c).** Supervised practice in development of skills in giving shampoo, pincurls, fingerwave, moulding, hair shaping, facial, scalp-treatment, hair coloring, and manicure. Student personnel planning. (d) Supervised clinic application of theory and technique of latest styling, corrective make-up, high-fashion hair coloring, tipping, frosting. Practical problems of a receptionist, salesmanship, inventories, salon management, professional ethics. Laboratory and lecture. Must be taken in a,b,c,d sequence, concurrently with a corresponding section of 125.

**125-20 (5,5,5,5) Cosmetology Theory.** (a) Study of sanitation and sterilization as applied to the cosmetologist and the clinic; that part of the Illinois law pertaining to

cosmetology; structure and chemistry of the hair and skin; theory of hair coloring and permanent waving. (b) Disorders and diseases of the scalp, hair, and skin. Study of various body systems. The uses of electricity and lights, and their effects on the body. (c) Basic chemical composition of materials used in cosmetology and their reactions on the skin and hair. (d) A study of the style construction involved in detailed planning and production of original and creative hair design, the principles of proportion for application of corrective make-up, assisting the mortician, and wig servicing. Must be taken in a,b,c,d sequence, concurrently with a corresponding section of 101.

## VTI D

**101-21 (7,7,7) Graphics.** (a) Multiview and pictorial drawing and sketching involving sections, single auxiliaries, dimensions, fasteners, and assemblies. (b) Descriptive geometry and welding specifications with applications to working drawings. Inking. (c) Principles and practices in making, changing and reproducing complete sets of drawings for both unit and mass production. Lecture and laboratory. Must be taken in a,b,c sequence.

**110-8 (5,3) Architectural Drafting.** (a) Freehand lettering, use of drafting instruments, geometric construction, orthographic projections, intersection of surfaces, and isometric drawing. (b) Shades and shadows, perspective construction, and the application of techniques to presentation drawings. Must be taken in a,b sequence. Lecture and laboratory.

**121-6 (2,4) Architectural Design.** A study of the principles of architectural planning, design, composition, and presentation as applied to structures of a simple nature. (a) Composition design principles. (b) Principles of planning and design as applied to structures of a simple nature. Lecture and laboratory. Prerequisites: 110a, 146a, or consent of adviser.

**127-3 Electrical, Hydraulic, and Pneumatic Controls.** A study of A.S.A. and A.I.E.E. standard electrical symbols; J.I.C. electrical, hydraulic, and pneumatic standards and nomenclature; the basic principles of machines. Practical application achieved by the preparation of electrical and hydraulic drawings including layouts and schematic and single line drawings. Laboratory and lecture. Prerequisite: 101 and VTI G 107.

**146-6 (3,3) Freehand Architectural Graphics.** Freehand drawing from life; sketching and presentation techniques. (a) Pencil techniques. (b) Theory of color and techniques in various color media. Lecture and laboratory. Must be taken in a,b sequence.

**147-3 History of Architecture.** Analysis of the development of architecture from the ancient to the present time as it is related to the environmental and cultural setting of man.

**150-3 Basic Materials of Construction.** Introduction to materials of construction with emphasis upon those materials not specifically regarded as structural, such as floor covering, wall covering, paints and finishes, lighting, etc.

**151-4 Materials and Methods of Construction.** Comprehensive study of light frame construction including foundations, manufacture and performance characteristics of materials, framing systems, finish materials, development of construction details and working drawings. Lecture and laboratory. Prerequisite: 110 or consent of adviser.

**152-2 Site Engineering.** Site selection considerations, land surveys, survey computations, contours, uses of contours, leveling, computations of cut and fill, drainage and grading, laying out of buildings and roads, and check list for site plans. Lecture and laboratory. Prerequisite: 110 and GSD 114c, or consent of adviser.

**153-4 Mechanics and Strength of Materials.** Elementary technical study of force systems; centroids and moments of inertia of areas, deformation and stress, flexure and deformation of beams, combined stresses in short blocks, columns. Prerequisite: GSD 114c concurrently, or consent of adviser.



**175-10 (3,3,4) Technical Drawing.** (a) Principles of orthographic projections, conventional representations and symbols, dimensioning, and sketching. (b) The use of instruments for working drawings including sectional and auxiliary views, threads and fasteners, details and assemblies, welding, and precision dimensioning. (c) The drawings of jigs, fixtures, and special tools. Must be taken in a,b,c sequence.

**178-3 Basic Woodworking Drafting.** Conveying ideas by means of freehand sketches, orthographic projections including auxiliary, isometric, and oblique projections, dimensioning, as applied to detail and assembly working drawings in the woodworking industries.

**179-3 Furniture Drafting and Design.** A study of furniture design and the development of working drawings and blueprints as applied to furniture construction.

**201-17 (5,5,7) Machine Drafting and Design.** (a) Assigned problems involving the analysis of motions required and the selection of suitable mechanisms. (b) Determination of forces, and the selection of materials and proportions to withstand the forces applied. (c) Designing of tools, dies, jigs, and fixtures. To fulfill requirements of course, outside work and preparation are necessary. Prerequisites: (a) 101, 225 and GSD 114 concurrently or consent of adviser. (b) 127 and 226 concurrently or consent of adviser. (c) 227 concurrently or consent of adviser.

**210-9 (3,3,3) Construction.** A technical study of masonry, concrete, metal, wood, and synthetics used in home construction. Development of skills limited to the very basic processes and tools. (a) Rough framing in wood construction. (b) Cabinet making, bench wood-working, and finished carpentry. (c) Continuation of b with the addition of finishing and preservation application. Lecture and laboratory. Prerequisite: 250 or consent of adviser.

**221-12 (4,4,4) Architectural Design.** Study of architectural planning, design, composition, and presentation. (a) Small commercial and residential structures. (b) Complex low rise structures and building groups. (c) Continuation of b with selected problems in architectural design of high rise buildings and building groups. Lecture and laboratory. Must be taken in a,b,c sequence. Prerequisite: 121b or consent of adviser.

**225-3 Kinematics.** A study of the motions required in various machines and the mechanisms which may be used to produce the desired motions, with special attention to automatic controls. Prerequisite: 101 and GSD 114, and VTI D 201a concurrently or consent of adviser.

**226-5 (2,3) Statics and Strength of Materials.** (a) A study of the forces acting on the various parts of machines. (b) The determination of suitable materials and proportions for those parts of machines. Must be taken in a,b sequence. Prerequisites: (a) D 201 concurrently, GSD 114c, or consent of adviser. (b) D 201b concurrently, or consent of adviser.

**227-3 Tool Design.** A study of the principles of production machine tooling involving the design of cutting tools, tool holders, dies, jigs, and fixtures for use with machine tools such as punch presses, drill presses, turret lathes, automatic screw machines, and grinding machines. Prerequisites: 201c concurrently, or consent of adviser.

**246-3 Architectural Rendering.** Pencil drawing and water color from still life and landscape. Lecture and laboratory. Prerequisite: 146 or consent of adviser.

**250-12 (4,4,4) Materials and Methods of Construction.** Comprehensive study of materials and methods of construction including foundations, manufacture and performance characteristics of materials, framing systems, finish materials, development of construction details and working drawings. (a) Semi-fire-proof construction. (b) Fire-proof construction. (c) Long span steel joists and steel detailing. Lecture and laboratory. Must be taken in a,b,c sequence. Prerequisite: 151 or consent of adviser.

**254-4 Mechanical Equipment of Buildings.** Code requirements and specifications affecting mechanical equipment; design and installation of plumbing; heating, ventilating, and air-conditioning equipment; electrical wiring; illumination and vertical transportation. Prerequisite: fourth-quarter status in concentration or consent of adviser.

**258-4 Structural Elements.** Analysis of building loads, theories of shear, flexure,

and deflection as they pertain to the design of steel and timber structural members. Prerequisite: 153 or consent of adviser.

**265-4 (2,2) Mechanical Services for Residential Building.** (a) Sanitary service. (b) Electrical service. Prerequisite: fourth-quarter status in concentration or consent of adviser.

**283-3 Construction Cost Estimating.** A study in methods of preliminary estimates, labor costs, quantity surveying, materials lists, construction schedules, preparation of working estimates. Prerequisite: 250 or consent of adviser.

**285-3 Office Practice.** A study of standard office procedures, contract documents, legal aspects of architectural profession, public relations, professional ethics, and American Institute of Architects standards of professional practice. Prerequisite: 250 or consent of adviser.

**290-6 (3,3) Theory of Structures.** Theory of structural design and use of the handbooks. (a) Reinforced concrete design. (b) Graphic analysis of force systems, structural members, and trusses of wood and steel. Must be taken in a,b sequence. Prerequisite: 258 or consent of adviser.

## *VTI E*

**100-9 (5,4) Data Processing Mathematics.** (a) The use of mathematics in modern business. (b) Number bases, systems of notation, Boolean algebra, logic, and the application of numerical solutions to physical problems. Emphasis upon the development of logical thought processes and careful work habits. Prerequisite: Satisfactory ACT. Mathematics score or VTI G 106.

**101-8 (3,5) Automatic Data Processing Machines.** (a) The development of data processing systems covering the history of, need for, and function of automatic data processing equipment including basic control panel wiring. (b) Control panel wiring on unit record machines using various laboratory problems. Must be taken in a,b sequence.

**103-5 Computer Programming.** Technical experience in using a stored program computer. Emphasis on the machine, its Components and logical function. Programming drills and exercises in machine language and a Symbolic Programming System. Prerequisite: 101.

**104-3 Data Processing Applications.** A study of typical business data processing applications. Authentic case studies show how machines are used as a system in processing data. Topics include billing, accounts receivable, accounts payable, inventory control, and payroll. Prerequisites: 100a, 101.

**107-2 Data Processing Information.** How to use resource materials. Orientation in the use of the library, Readers' Guide, and various periodicals. Prerequisite: 101.

**202-10 (5,5) Scientific Computer Programming.** (a) Logical functions of a scientific computer. (b) Complex problems using the FORTRAN language system for the IBM 1620 and 1401. Must be in a,b sequence. Prerequisite: 103.

**203-10 (5,5) Business Computer Programming.** Practical business problems. (a) The Symbolic Programming System (SPS) for the IBM 1401 and complex problems involving magnetic tape and disk files using the Autocoder system. (b) Problems using the Input-Output Control System. Must be taken in a,b sequence. Prerequisite: 103.

**205-5 Systems Design and Development.** The three phases in the evolution of a system; Analysis of present data flow, system specifications and equipment selection, and implementation and documentation. Case studies from single applications to the total information system of a large, complex business. Prerequisite: 104.

**206-10 (3,7) Programming Systems.** Provides a working knowledge of concepts of current programming systems so that one may use any specific system with a minimum of instruction. (a) Programming systems analyzed to determine their purpose and function. The major divisions include assembly programs, compilers, generators, monitors, and utility programs. (b) Individual phases of certain selected systems are treated in detail. Must be taken in a,b sequence. Prerequisites: 202, 203.



**207-3 Data Processing Field Project.** Each student is assigned in the University's data processing and computing center, or other approved facility, during his last quarter. Coordination of his activity is by the institute's data processing program coordinator; evaluation of his performance is by the manager of the cooperating center in conjunction with the academic adviser. Prerequisite: 206a.

## *VTI F*

**101-15 (5,5,5) Production Woodworking Laboratory.** Practical experience in production woodworking including machine operation, cabinet making, millwork and furniture construction. (a) Machines, (b) Cabinet and millwork, (c) Furniture. Must be taken in a,b,c, sequence or consent of adviser.

**125-9 (3,3,3) Production Woodworking Theory.** Fundamentals of production woodworking, machine characteristics, millwork procedures, furniture construction, safety, estimating, scheduling. Lecture and field trips. (a) Machines, (b) Millwork, (c) Furniture. Must be taken in a,b,c sequence or consent of adviser.

**128-4 Wood Technology.** Study of the structure, identification, and physical properties of wood.

**129-3 Wood Finishing.** Principles of wood finishing systems and materials.

**130-3 Lumber Seasoning.** Wood-moisture relations, air drying, and kiln drying theory and practice. A full size kiln at the Wood Products Pilot Plant is available for practical seasoning work.

**131-2 Lumber Grading.** Study and practice of the National Hardwood, Southern Pines, and West Coast rules. Tally methods and grading for special products.

**201-15 (5,5,5) Production Woodworking Laboratory.** Practical experience in light frame construction, prefabrication, laminating, foremanship, production processes. (a) Light frame, (b) Prefabrication, (c) Production processes. Prerequisite: VTI F 101a; Must be taken in a,b,c sequence or consent of adviser.

**225-9 (3,3,3) Production Woodworking Theory.** Advance machine operating problems, light frame construction, prefabrication adhesives, estimating, scheduling, job analysis, safety, leadership problems. Lecture and field trips. (a) Light frame, (b) Prefabrication. (c) Processes. Prerequisite: VTI F 125a; Must be taken in a,b,c, sequence or consent of adviser.

**232-2 Wood Preservation.** Wood preservatives: their use, limitations, and methods of application.

**250-3 Plant Organization and Operation.** Study of the organization and layout of woodworking plants; materials handling methods; safety programs; organization and management of personnel; motion and time studies, quality control, purchasing, inventory, industrial costs. Prerequisite: 101 and 201a,b or consent of adviser.

## *VTI G*

**101-3 Business Correspondence.** A brief review of fundamentals and a complete study of letter forms and letter mechanics. Various types of business letters and report writing with adequate practice in writing application, sales, adjustment, inquiry, and credit letters. Prerequisite: GSD 101a.

**102-3 Technical Writing.** Development of an understanding of basic principles and proficiency in the skills involved in writing the technical report.

**106-0 Elementary Mathematics.** A refresher or remedial course, which includes a review of the mathematical foundations necessary to take college-level mathematics courses.

**107-3 Technical Mathematics.** The study of algebra with specific orientation to the vocational needs of the students. Separate sections for the various curricula as designated in the Schedule of Classes. Prerequisite: satisfactory ACT mathematics score or 106.

**115-6 (3,3) Introduction to Chemistry.** (a) A study of the structure of matter including a survey of the common elements and compounds and the changes during chemical reactions. Also a study of inorganic acids, basis, salts, solutions, the periodic

tables, equation balancing, and the metric system. (b) A study of the chemistry of organic compounds, carbohydrates, proteins, and lipids relating them specifically to body functions. Also the chemistry of digestion, metabolism, respiration, blood, enzymes, hormones, and vitamins. Must be taken in a,b sequence. (b) Prerequisite: Dental Hygiene student or consent of adviser.

**118-3 Applied Calculus.** A study of calculus specifically oriented towards the needs of the technician. This course includes a study of the functions, graphical methods of calculus, the derivative and its applications, and the integral and its applications. Prerequisites: GSD 114a, GSD 114c.

**120-4 Basic Applied Physics.** A study of those phases of physics dealing with heat, magnetism and electricity. Lecture and laboratory. Prerequisite: GSA 101a, VTI G 107.

**136-5 Introductory Sociology.** Interrelationships of personality, social organization, and culture; major social processes; structure and organization of social groups.

**141-5 Introduction to Physiology.** A survey of the functions of the human body for students desiring basic but comprehensive knowledge of human physiology.

**232-4 Labor Management Relations Problems.** Personnel policies, selection and employment, employee benefits, labor organizations and governmental activities, employee-employer relations, grievance procedure, wage and salary standards, and use of practical industrial psychology.

## *VTI H*

**112-4 Jury Charge.** Dictation of the Court charges to a jury, opinions, comments of court, counsel to jury, and counsel to court is given so that students will develop speed, accuracy, and vocabulary in the taking of the dictation. Transcripts are made of some of the instructions to the jury, and these transcripts are checked for accuracy.

**120-18 (6,6,6) Machine Shorthand.** (a) A study of the principles of machine shorthand theory with emphasis and intensive drill on brief forms, phrases, and word families. Correct reading and writing techniques are emphasized. Dictation speeds are gradually increased to a minimum 60 words per minute for 5 minutes. Students with one or more years' machine shorthand instruction receive no credit. (b) Provides for learning an automatic vocabulary of brief forms, special forms, and word families. Writing practices on familiar materials and introduction of new material in dictation. Sustained writing situations are gradually introduced. Dictation speeds are gradually increased to a minimum of 80 words per minute for 5 minutes. Introduction to the principles of stenograph machines transcription, placement of letters, spelling, vocabulary building, application of grammar, transcription of business letters and reports according to modern business office standards. (c) Dictation speeds to a minimum of 120 words per minute for 5 minutes are required. Intensive drill on brief forms and word families and office-style dictation situations are presented. Must be taken in a,b,c sequence.

**210-4 Two-Voice Testimony.** Dictation of alternating questions and answers to give the student practice in taking dictation under conditions, which occur in court procedure. Fluency in reading back testimony and accuracy of written transcripts are stressed daily.

## *VTI J*

**101-18 (6,6,6) Presswork Laboratory.** (a) Elements of offset presswork and camera work. Copy preparation, stripping of flats, plate making and darkroom and camera precedures. (b) Advanced composition and automatic presswork. Type forms are set and prepared for two-color register printing. Operation and care of automatic platen and cylinder presses. (c) Advanced elements of offset work. Stripping of multiple page forms, advanced imposition problems and multiple color work. Must be taken in a,b,c sequence, concurrently with a corresponding section of 125.

**125-9 (3,3,3) Presswork Theory.** (a) Elements of offset presswork and camera



work. Comparisons of offset and letterpress with advantages and disadvantages of each. (b) Advanced composition and automatic presswork. Procedures for single and multiple forms. Uses of hand and machine composition. (c) Advanced offset problems. Different methods of reproducing copy in offset production. Must be taken in a,b,c sequence with a corresponding section of 101.

**153-3 Printing Layout and Design.** A study of type faces and their appropriate uses. Comparison of good and poor design. Preparation of layouts for jobs being currently printed in the shop.

**201-18 (6,6,6) Composition Laboratory.** (a) Principles of Linotype and Intertype operation, with emphasis on touch system. Practice in many type of machine composition. (b) Advanced Linotype and elements of Ludlow operation, with the application of tabular and broadened rule composition. Operation of Ludlow typesetter. (c) Advanced production printing, letterpress and offset. Application of the techniques learned in relation to real jobs in the shop. Use of paper drill, stitcher, and cutter are used. Must be taken in a,b,c sequence, concurrently with a corresponding section of 225. Prerequisites: 101a, 125a.

**225-9 (3,3,3) Composition Theory.** (a) A study of the correct keyboard system for slug-casting machines, word division and straight-matter composition. (b) Advanced Linotype and Intertype maintenance, adjustments, and advanced keyboard problems; operational procedures of the Ludlow type caster. (c) Procedures for the planning and production of printing; a study of the kinds of ink, paper, and other supplies needed for both letterpress and offset printing. Must be taken in a,b,c sequence, concurrently with a corresponding section of 201. Prerequisites: 101a, 125a.

**235-5 Printing Theory and Practice.** A basic course in offset printing, theory and practice, designed for Commercial Art students. This course covers the fundamentals of lithographic copy, layout and plate making, related information and operation of small lithographic presses; the solving of copy, plate and press troubles. Emphasis is placed on camera work, dark room procedure, presswork, and the use of the Ludlow, with a comprehensive study of the four color processes. Prerequisites: N210a,b and N230a,b.

**251-3 Estimating and Costs in Printing.** How to estimate the costs of ink, paper, and presswork time necessary to produce a printed job. Prerequisite: Concurrent enrollment in 201c and 225c.

## *VTI K*

**101-9 (3,3,3) Calculating Machines.** (a) Development of operational skill on the key-driven calculator, ten-key adding machine, full-key adding machine, rotary calculator, and accounting machines. Production standards are used to measure skill proficiency. (b) Further development of skill. (c) Office practice sets and skill-developing production timings are used to accomplish occupational competency on the calculating machines to be used in the student's chosen major fields. Must be taken in a,b,c sequence.

## *VTI L*

**101-6 Aircraft Reciprocating Powerplant.** Theory of aircraft powerplants, construction, operation and overhaul. Computation of horsepower types of cooling, timing and materials used in construction. Shop practices in disassembly, cleaning, inspection and measurement to include study of applicable FAA regulations.

**102-6 Carburetion and Lubrications Systems.** Theory of carburetion, induction and lubrication systems. Principles of operation of various carburetors. Type, composition and characteristics of fuel and jet fuel. Overhaul and inspection, maintenance and adjustments of carburetors, pumps, valves, fuel injection systems and accessories. Repair and inspection of oil regulating systems.

**103-6 Aircraft Electricity, Generator-Alternator.** A study of basic electricity, batteries, electrical components, lighting systems. Solution of DC and AC problems. Studies

of alternating current, frequency, cycle, inductance, reactance and impedance. Operation and repair of alternators, rectifiers, inverters, theory and application of transformers.

**105-4 Aircraft Instruments.** Theory of operation, installation, marking and interpretation of aircraft instruments. Precautions and method of correct installation. Minor field adjustments and calibration.

**106-5 Aircraft Ignition-Starting System.** A study of electro-magnetism and principles of induction covering operation of magnetos, high and low tension systems, booster, solenoids, relays and cranking motors. Selection and construction of spark plug. Overhaul of ignition and starting components. Proper care and use of testing equipment.

**107-4 Fabric-Wood-Doping.** Specification of material, such as fabric, wood, dope, thinner, paint, sewing threads is discussed. Safety precautions in doping area. Performing wood structure repairs. Recover aircraft assemblies. Care and use of spray equipment.

**108-6 Jet Propulsion Powerplant.** History and introduction to pulse jets, ram jets, rockets, turbo jet and turbo prop engine. Theory of operation of turbine engines. Jet engine aerodynamics, thermoefficiency, component functional operation and performance. Jet engine requirements and care. Computation of thrust and analysis of factors affecting thrust. Inspection, repair, and reassembly of a jet engine.

**109-4 Powerplant Testing.** Installation of engines, methods, procedures and precautions to be observed. Inspection and trouble shooting of reciprocating and jet engine. Interpretation of instrument readings. Trimming jet engines, fuel management and cruise control.

**203-5 Aerodynamics.** Theory of flight and factors affecting aircraft in flight. Design and stress consideration. Problems of lift, drag, velocity,  $V_{min}$ , thrust, coefficient, wing loading, etc. Comparable analysis of design feature in subsonic, transonic and supersonic aircraft. General helicopter aerodynamics. Practical instruction in assembly and rigging of aircraft wing flaps and control system. Analysis of faulty flight characteristics.

**204-5 Aircraft Hydraulics.** Fluid theory and applied physics. Theory of operation, maintenance and adjustment of hydraulic system and component units. Overhaul of hydraulic components. Testing, servicing and adjustment of system. Performing retraction test, trouble shooting and periodic inspection.

**205-3 Pressurization, Air Conditioning Systems.** A lecture-laboratory course to acquaint the students with altitude aircraft used by the airlines. Lecture and demonstration on pneumatic system, anti-icing, cabin pressurization and air conditioning systems.

**206-4 Metal and Processing.** A study of aircraft aluminum alloys and their physical properties and heat treatment. FAA method of repairs. General study on design, strength, stress and other related processes of aluminum and its alloys. Perform sheet metal repair in accordance with FAA methods.

**208-2 Aircraft Fuel System.** A combination lecture-lab course dealing with the aircraft system. Study of fuel management and flow configuration. Trace fuel systems, and replacement of component units.

**209-6 Weight & Balance and Inspection.** A lecture class in FAA regulations covering maintenance, inspection and repair of aircraft. Study of aircraft loading and its effect on balance. Solving load and balance problems. Conduct proper method of ground handling, jacking and weighing aircraft. Perform inspections: 100 hours, periodic, and progressive.

**217-1 Radio Operation and Installation.** A lecture-lab class concerned with type of communication and navigation radio equipment. Installation procedure and field trouble shooting.

**220-3 Jet Transport Aircraft Systems.** A lecture-lab class designed to bring out comparison study of systems on various current jet airliners. Field trips to major airlines are part of this course.

**230-3 (2,1) Private Pilot Course.** (a) Ground instruction in navigation, radio navigation, meteorology and flight planning. (b) Dual and solo flight instruction in single engine aircraft for a FAA Private Pilot License.



**231-3 Basic Flight.** This course includes forty total flight hours, fifteen dual and twenty-seven solo. Dual includes advanced flight maneuvers, instrument training, and transition from 2 to 4 place aircraft. Solo flight hours include ten hours of cross-country in the Cessna 150, and two hours of flight maneuvers in the Cessna 172. Prerequisite: 230.

**104-5 Propellers.** Theory and operation of propellers and governors. Including inspection, overhaul and serving of propellers, both hydraulic and electrical. Operation of propeller deicing systems and turbo-prop propellers.

**232-3 Intermediate Flight.** Intermediate flight course which includes forty flight hours, thirteen dual and twenty-seven solo. In this phase the dual hours include two hours dual cross-country and two hours night cross-country. This, in addition to the local night dual and solo, completes the night requirement for the commercial license. The solo hours include fifteen hours of advanced cross-country. This course also includes forty hours of classroom work in weather analysis, advanced navigation, computer practice, and aircraft performance. Prerequisite: VTI L 231.

**233-3 Advanced Flight.** This course requires forty flight hours, fourteen dual, twenty-six solo. This final phase is designed to complete the student's proficiency for a commercial certificate. Completion phase includes transition to a more advanced, complex aircraft, including constant speed prop, and other advanced flight controls. The student will complete various advanced flight maneuvers. He will also have the opportunity to make observer and copilot flights on multiengine equipment up through DC 3 type aircraft. Prerequisite: VTI L 232.

**234-3 Instrument Flight.** Both full and partial panel flight is emphasized using Cessna 150 and 172 aircraft. This includes thirty-five hours dual in basic instrument and radio navigation. The radio portion emphasizes VOR and ADF navigation approaches. Prerequisite: VTI L 233.

**251-12 (3,9) Aircraft Communications and Navigation Systems and Avionics Laboratory I.** (a) Principles of aircraft communication systems, VHF transmitter, transceivers and controls. (b) Operation of VHF AMNIRANCE, VOR systems, marker beacons, localizer circuitry, glide-slope and antennas, ADF circuitry and antennas, maintenance, inspection, repairing and trouble shooting transceivers, VHF transmitters, VOR equipment, ILS receiving equipment and ADF sets, flight check procedure and calibration. Must be taken concurrently. Prerequisite: VTI T 225a.

**252-6 (3,3) Aircraft Integrated Flight System and Avionics Laboratory II.** (a) A study of flux gate compass and transmitter, amplifier and repeaters; polarpath compass, RMI repeaters, gyrosyn direction indicator, system schematic, flight director computer, and various integrated systems such as Sperry, Bendix, Collins, and Kollsman. Trouble shooting test and calibration equipment. (b) Federal Aviation Agency accepted methods of installation and layouts of airborne radio equipment, communications and navigation. Proper execution of FAA form 337 and applicable FAR. Weight and balance of aircraft as a result of avionics equipment installations. Prerequisite: VTI T 225a.

**253-6 (3,3) Aircraft Flight Controls and Instrumentation Systems, and Avionics Laboratory III.** (a) Basic principles of flight instrumentation, and automatic flight controls. Investigation and testing of Lear, Federal, Factair, Mitchell, Globe, Javelin, Sperry, and Bendix and Collins Autopilot Systems. Trouble shooting systems. (b) Systems installations, FAA forms, specifications, service bulletins, FAA-STC and weight and balance control. Must be taken concurrently. Prerequisite: VTI T 225a.

**254-6 (3,3) Airborne Radar System and Avionics Laboratory IV.** (a) Pulse circuit and microwave theory. Receiver band width and sensitivity, image response, decoder, reply frequency, pulse characteristics and echo suppression. (b) Principles of distance-measuring equipment DME, radar beacon transponders and airborne weather radar. System installation and servicing. Must be taken concurrently. Prerequisite: VTI L 251 a and b.

## *VTI M*

**101-15 (5,5,5) Machine Tool Laboratory.** Supervised instruction involving (a) Drill Press, Bench-work, Engine Lathe. (b) Advanced Engine Lathe, Shaper, and Milling

Machines. (c) Milling Machine and Grinding. Must be taken in a,b,c or a,c,b sequence concurrently with a corresponding section of 125.

**125-9 (3,3,3) Machine Tool Theory.** (a) Introduction to basic machine tools. (b) Machine ability. (c) Milling machine set-ups and tooling selection; grinding wheel safety and selection. Must be taken in a,b,c or a,c,b sequence concurrently with a corresponding section of 101.

**175-3 Basic Machine Shop Practice.** Machine shop for the allied trades stressing the use of hand tools, drilling, and basic lathe work.

**176-6 (3,3) Manufacturing Process.** (a) Chip machining. (b) Chipless machining. May be taken in a,b or b,a sequence.

**201-9 (3,3,3) Advanced Machine Tool Laboratory.** Supervised instruction on projects involving: (a) Tool and Die Work. (b) Production Machines. (c) Production tooling and numerical control. May be taken in any sequence, concurrently with a corresponding section of 225. Prerequisite: 101.

**225-9 (3,3,3) Advanced Machine Tool Theory.** (a) Quality Control and Inspection Practices. (b) Process Planning—which includes operation analysis, feed and speed calculations, process and machinery selection. (c) Cost Estimating and Production Scheduling. May be taken in any sequence concurrently with a corresponding section of 201. Prerequisite: 125.

**275-9 (3,3,3) Metallurgy.** (a) Welding Metallurgy, the study of the behavior of metals in welding processes with regard to heat transfer, heat affected zones and grain structures. (b) Ferrous Metallurgy, the theory of alloys, study of basic phase diagrams, simple heat treating processes and microstructures. (c) Tool Steel Metallurgy, study of tool steels with emphasis on selection and heat treatment and relationships to design criteria. Must be taken in a,b or a,b,c or b,c sequence.

## VTI N

**101-3 Art Analysis.** Primarily a general art history background. Analytical discourse of the aims, techniques, methods, materials, and media of classical and contemporary artists and their influence on today's commercial art.

**125-10 Techniques—Theory and Practice.** A basic, well-disciplined, practical background in using the most suitable materials. Stresses versatility in using all media acceptable in commercial art today. Also, the preparation of art work for reproduction.

**130-10 Advertising Design and Production.** Production of practical, attractive, original, effective, and aesthetically pleasing art in all advertising media, with emphasis on lettering, typography, and practicality of reproduction. Prerequisite: N 125-10.

**135-2 Layout and Color Theory.** A course in modern advertising layout designed for printing majors, with special emphasis placed on the theory and use of color as applied to the printing field today. Prerequisite: Major in Printing Technology.

**140-10 Introductory Advertising and Story Illustration.** Execution of problems typical of those which confront the advertising illustrator, in various media, with emphasis on excellence, individuality of concept and technical treatment, and creative development. Prerequisite: N 130-10.

**210-23 (8,8,7) Advertising and Story Illustration Theory and Practice.** (a) Execution of various problems typical of those which confront the story illustrator, with emphasis on subject analysis, research, drawing, composition, and preparation of the finished piece. From concept to completion, the student employs creative organization of pictorial material at a professional level. (b) Complex and comprehensive assignments, with emphasis on layout design and advanced rendering techniques. (c) Design and development of three-dimensional point-of-purchase displays and practical application of color separation overlays. Must be taken in a,b,c sequence, concurrently with a corresponding section of N 230. Prerequisite: N 140-10.

**230-20 (7,7,6) Technical Illustration Theory and Practice.** Based on the exacting requirements of the armed forces and industry. (a) Preparation and rendering of aircraft, automotive, and machine parts in various media from blueprints for operation and maintenance manuals. (b) Emphasis on rendering and reproduction suit-



ability. (c) Emphasis on advanced air-brush rendering, and technical manual publication. Must be taken in a,b,c sequence, concurrently with a corresponding section of 210. Prerequisite: N 140-10.

## *VTI P*

**101-6 Basic Nursing.** Introduction to nursing which includes the development of nursing concepts, standards of evaluation, legal responsibilities, and trends in nursing. The development of basic nursing skills in caring for the environment and meeting the hygienic needs of the patient. Principles of rehabilitation nursing and first aid are introduced. The first six weeks is conducted exclusively in the classroom while the last six weeks includes limited experience in the patient setting under careful supervision.

**102-7 Practical Nursing, Role I.** A seven weeks period is spent developing skills in giving complete morning care to one patient, within the scope of Role 1, in which the patients' condition is considered to be relatively stable and free of complexities. An introduction to the nursing care of patients with common medical-surgical diseases is presented with the development of limited skills in more advanced and technical nursing procedures in the classroom. Prerequisite: 101.

**103-30 (6,12,12) Clinical Theory and Nursing. (a,b,c)** Must be taken in sequence. During the clinical period of thirty weeks, courses are concurrent with students' specialized nursing area, of which there are five, lasting six weeks each. Prerequisites: P101, P102, P131, P132. These supervised areas and courses include (1) nursing care of the aged and of persons with chronic and convalescent disease, including principles of mental health to assist in care of patients with specific behavioral problems; (2) nursing care of the sick and handicapped child in regard to specific conditions found in children; (3) care of mothers and newborn infants to become aware of fetal development, normal pregnancy, prenatal and postnatal care, and disorders of the newborn; (4) nursing care of selected patients requiring surgery, including two weeks experience in Central Supply and Recovery Room (in this Recovery Room experience, the student performs by assisting the professional registered nurse, as a deeper scientific judgment is required in this more complex situation); (5) nursing care of selected patients with medical diseases with accent on the part that diet and medications play in recovery. Cluster classes are held every week, in the individual hospitals, relating to specific treatments and nursing care of one selected patient. This consists of a discussion group and exchange of ideas assisted by the instructor. During the last two weeks of the clinical area, vocational opportunities are presented as an orientation to the possibilities of employment and information is given concerning nursing organizations.

**131-4 Nutrition for Practical Nurses.** To give an understanding of the role of nutrition for a well-balanced diet and how to modify them for therapeutic purposes. The student is guided in the appropriate utilization of food in the body throughout the life cycle. To develop an appreciation of how methods of food preparation affect the appearance, palatability, and nutritive value of foods.

**132-5 Health.** Emphasis on understanding the normal body functions as a basis for understanding deviations from normal in time of disease. Includes the scope of scientific knowledge which enables man to maintain vigorous health and guard against disease. Principles of personal health and basic human needs are presented. The role of the family in the community covers the normal development of baby, toddler, school child, adolescent, adult, and elderly person.

## *VTI R*

**124-4 Introduction to Retailing.** Duties and responsibilities in the store, distribution functions, modern store organization, history and background of modern retailing, and the basic responsibilities of the student in the Cooperative Retailing program. No prerequisite.

**127-6 (3,3) Salesmanship.** Principles and techniques of selling. (a) Basic principles

of salesmanship. Personality requirements, techniques of making sales in the retail stores, retail sales problems and ways to solve them. (b) Analysis of the techniques of prospecting used in specialized selling; determining customer needs, presenting merchandise, meeting objections, and professionally assisting customers. Sequence may be taken in any order. No prerequisite.

**176-3 Product Analysis.** A background course in basic theories and principles of analyzing merchandise. No prerequisite.

**177-10 (5,5) Product Information Laboratory.** Application of the principles of analyzing merchandise and the study of how this information is used. (a) Study of textile merchandise. (b) Study of nontextile merchandise. Prerequisite: R176 or concurrently. May be taken in any order.

**179-5 Retail Mathematics.** Analysis and calculations encountered daily in the merchandising field: mark-up, mark-down, stock records, profits, expenses, discounts, and invoices. No prerequisite.

**201-16 (8,8) Cooperative Work Experience.** Full-time training in a University approved merchandising establishment. Includes preparation of weekly reports, participation in periodic discussions with other trainees led by the coordinator and completion of a written project. Training includes: Opportunity to learn the functional organization of the company, to become acquainted with the store system and policies, and to perform the duties of a position which offers the potential for learning and experience; opportunity to survey and participate in a department's merchandising (planning) efforts. Prerequisite: the first three quarters.

**205-4 Merchandising Principles.** Duties of the buyer and department manager. Organization for buying. Includes buying functions, management and activities, single and multiunit stores, resident buying and services, techniques and problems of merchandise selection. No prerequisite.

**206-5 Records and Statistics.** A survey and interpretation of record-keeping systems used in a retail establishment. Analyzing merchandise and expense-control data. No prerequisite.

**207-6 (4,2) Sales Promotion.** Fundamentals of sales promotion; its relationship to the advertising, display, and merchandising divisions of a store. (a) The fundamentals of sales promotion and its relationship to all forms of publicity. Principles and techniques of retail advertising. (b) Principles and techniques of the physical presentation of merchandise. Sequence may be taken in any order. No prerequisite.

**208-6 (4,2) Fashion Merchandising.** Fashion, its influence and application to all phases of merchandising. (a) Fashion as it applies to buying and selling and its influence on customer demand; basic principles of color, line, and design; interpretation of factors influence fashion. (b) Prediction fashion from an analysis of fashion literature. Sequence may be taken in any order. No prerequisite.

**215-4 Marketing Problems.** Problems in the retail merchandising and management areas. Includes current readings, analysis and discussions of problems and cases provided by the store and/or the instructor.

**224-4 Retail Store Organization and Management.** Organization and operation of a retail business. Forms of ownership, financing a new business, location, building and layout, insurance, and store policies. No prerequisite.

**227-3 Personnel Management.** Retail personnel management, employee relations, policies, methods of recruitment, selection, placement, and training. Emphasis on relationship to the merchandising division of the store. No prerequisite.

**280-3 Retail Credits and Collections.** Principles and practices of a retail credit department: credit sales practices, human relations, Credit Bureau, credit letters, and collection procedures. No prerequisite.

## *VTIS*

**101-9 (3,3,3) Typewriting.** (a) Introduction to touch typewriting techniques and attainment of a minimum net typewriting rate of 30 words per minute. Simple business correspondence, tables, and manuscripts. No credit for students who have had one year or more of typewriting instruction. (b) Building typewriting manipulative skill by increasing speed to 40 words per minute and developing control.



All basic letter styles are practiced. Skill proficiency is developed through times production assignments, varying 20 to 30 minutes in length and through development of numbers and special symbols. Must be taken in a,b sequence. (c) Development of typewriting skills and knowledges with a minimum net typewriting rate of 50 words per minute. Special business communication forms and styles are introduced and practiced by attainment of a higher level of skill in timed production work. Must be taken in a,b,c sequence.

**104-18 (6,6,6) Shorthand.** (a) An introductory course for beginning shorthand students, utilizing demonstration; drills on word lists; practice in reading materials; intensive drills on brief forms, phrases, and word families; and practice in taking sustained dictation at a minimum of 60 words per minute for five minutes. No credit for students who have had one year or more of shorthand instruction. Students with a deficiency in shorthand theory may audit this course. (b) Vocabulary, brief forms, word families, English fundamentals, punctuation, spelling aids, English vocabulary building. Emphasis on dictation, speed building, mailable transcripts, office-style-transcripts, and sustained dictation at a minimum rate of 80 words per minute. A transcription rate of 20-25 words per minute for a 30-minute period is attained. Much emphasis is placed on spelling, punctuation, and English usage on all transcripts. Must be taken in a,b sequence. (c) A further development of dictation and transcription skills. The minimum sustained dictation rate is 100 words per minute and a transcription rate of 25-30. Must be taken in a,b,c sequence. **107-3 Filing and Duplicating.** Basic principles of modern filing systems; alphabetic, subject, numeric, and geographic. Students work with practice filing equipment, learning the rules of indexing, cross referencing, coding, charge-outs, color devices, and setting up a modern system. Basic principles and practice on multiple copy machines. Prerequisite: 101a or consent of adviser.

**125-3 Personality Development.** Special instructional sessions offered on personal hygiene, personality, poise and charm, clothing, and professional ethica.

**205-6 (3,3) Typewriting.** (a) Application of typewriting skills and theory to problem situations with a minimum net typewriting rate of 60 words per minute required. Special statistical reports, duplication procedures, legal typewriting problems, tabulation of unarranged materials, employment typewriting tests, and accounting reports. (b) The development of a minimum net typewriting rate of 70 words per minute. Office-style production assignments measure skill performance. Must be taken in a,b sequence. Prerequisite: 101c.

**209-12 (6,6) Shorthand.** (a) Emphasis on dictation and transcription leading to mailable copy according to modern business standards. A minimum sustained dictation rate of 110 words per minute is attained, and a transcription rate from 30 to 35 words per minute is attained for a 30-minute period. Spelling, punctuation, and English usage are emphasized on the sustained dictation transcripts, office-style transcripts, cold-notes transcripts, and mailable copy transcripts. Attention is given to shortcuts, most-used business phrases, common business words and terms, spelling, English fundamentals, and theory. (b) Development of dictation and transcription skills leading to attractive and mailable transcribed copies. A minimum sustained dictation rate of 120 words per minute is attained, and a transcription rate from 30-45 words per minute is attained for a 30-minute period. Development of transcription skills from high speed dictation notes using business, commercial and industrial vocabulary. Attention given to word usage, sentence structure, punctuation, and spelling. Must be taken in a,b sequence.

**214-5 Cooperative Secretarial Experience.** The student spends either half days or two weeks at a time in an office to gain experience in the field of his concentration. The half-day plan is used within a radius of 20 miles of the institute; in others, part-time placement is planned in the student's home town, or environs, wherever possible. Prerequisite: fifth-quarter standing in secretarial concentration.

**223-5 Secretarial Office Procedures.** This course is designed for a one-term course to prepare the college-level student for any secretarial position. It analyzes the secretarial profession and stresses the personal qualities needed for success in it, including human relations and good grooming. Specialized secretarial duties such as transmitting mail, handling incoming mail, processing telegraphic messages; receiving callers, and using the telephone; planning travel and recording meetings;

using copying and duplicating methods are covered. The course stresses the latest and most efficient secretarial procedures.

**224-6 Legal Shorthand.** Dictation, involving special legal terms, vocabulary building, shortcuts in writing legal terms in Gregg shorthand, or in machine shorthand. Transcription from dictation notes special to the work of a legal secretary. Work in preparation of briefs and legal documents with State of Illinois Standard Form.

**225-12 (6,6) Medical Shorthand.** (a) Advanced dictation involving medical terminology, phrasing, and vocabulary. Special terms and definitions are used in preview of materials, such as medical case histories, X-ray reports, operation reports, and consultation reports that are dictated for transcription. Emphasis is placed on definitions, spelling, and shorthand writing of medical prefixes and suffixes. (b) Increasing speed and proficiency in the writing of medical case histories. Special emphasis is placed on phrases and special terms. Medical secretarial techniques are stressed. Emphasis on increasing speed and proficiency of medical transcripts.

## VTI T

**101-21 (7,7,7) Electronic Laboratory.** (a) AC, DC. (b) Vacuum Tube and transistor. (c) Transmitter and receiver. Must be taken in a,b,c sequence, concurrently with a corresponding section of 125.

**125-15 (5,5,5) Electronic Theory.** (a) AC, DC. (b) Vacuum tube and transistor. (c) Transmitter and receiver. Must be taken in a,b,c sequence, concurrently with a corresponding section of 101.

**201-15 (5,5,5) Electronic Laboratory.** (a) Transistor circuits and systems laboratory. (b) Pulse and microwave laboratory. (c) Service problem solving. Must be taken in a,b,c sequence, concurrently with a corresponding section of 225. Prerequisites: 101, 125.

**202-5 Principles of Television.** Laboratory practices involving signal tracing, signal injection, sweep alignment in television receivers with the emphasis on diagnostic approach. Must be taken concurrently with 226. Prerequisite: 201a, 225a.

**205-5 Microwave, servo, Ultrasonic, and Radar.** Analysis of synchro systems, servo control systems, industrial ultrasonic and sonar circuits, micro-wave transmitters and receivers, multiplexing circuits, and radar systems. Must be taken concurrently with 231. Prerequisites: 202, 226.

**225-15 (5,5,5) Electronic Theory.** (a) Transistor circuits and systems theory. (b) Pulse circuits and microwaves. (c) Electronic service principles. Must be taken in a,b,c sequence, concurrently with a corresponding section of 201. Prerequisites: 101, 125.

**226-5 Television Circuits and Systems.** The study of the composite video, R.F., I.F., A.F., A.F.C., clipping circuits, synchronizing, and power supplies with emphasis on diagnostic approach. Must be taken concurrently with 202. Prerequisites: 201a, 225a.

**228-3 Federal Communications Commission License.** A theory course for second class FCC license. Examination must be taken at an FCC examining point. Prerequisites: 101, 125.

**229-3 Color Television.** Principles of color television theory. Must be taken concurrently with 201c and 225c. Prerequisites: 201b, 225b.

**231-5 Industrial and Microwave Systems.** Principles of synchros and synchro control systems; servo control systems; industrial measurement and control systems, microwave oscillators, transmitters, receivers, multiplexing, and radar systems. Must be taken concurrently with 205. Prerequisites: 202, 226.

**232-3 Industrial Circuits.** An over-view of industrial, control, and measuring circuits. Prerequisites: 101, 125.

## VTI U

**101-6 (3,3) The Funeral—History and Customs.** (a) History and customs of the funeral from ancient times through modern practices. (b) History of American funeral directing up to the present date, including current events.



**110-4 Embalming Chemistry.** Chemistry of the body, sanitation, toxicology, chemical change in cadavers, disinfection, and embalming fluids. Prerequisite: Introductory course in chemistry.

**202-3 Restorative Art.** Anatomical modeling, theories, methods and techniques color theory and its relationship to our environment; psychological effects of color; cosmetology; design proportions. Laboratory and lecture.

**203-3 Introduction to Embalming.** Orientation and technique. A study of the body, sanitation, disinfection, and embalming fluids. Prerequisites: Chemistry 110, 240, Physiology 300, GSA 301.

**205-6 (3,3) Pathology.** A study of the morbid changes that take place in human tissue as a result of disease processes. Must be taken in a,b sequence. Prerequisites: Physiology 300, GSA 301.

**208-2 Public Health, Laws and Regulations.** Basic principles and practices of public health administration. Organization and functions of agencies, at federal, state, and local levels, which are engaged in the preservation and protection of public health. The funeral director's responsibilities and relationships to local boards of health and the State Department of Public Health.

**210-3 Psychology of Funeral Service.** Psychological principles relative to the funeral director in consultation with his clients. A study of the psychology of grief. Prerequisites: Psychology 305, 307.

**225-15 (5,5,5) Embalming Theory and Practice.** Theory, practices, and techniques of sanitation and preservation as related to the care of deceased human bodies. Lecture and laboratory. Must be taken in a,b,c sequence. Prerequisite: 203.

**250-5 Mortuary Management.** A study of the problems involved in the practice of funeral management. Current practices and procedures in the direction of funerals. Funeral home operation and records. Laws, ethics, and professional regulations. Must be taken in a,b sequence. Prerequisite: 101.

**275-10 Funeral Service Internship.** The student will spend one quarter in a University approved Illinois funeral establishment learning in actual practice situations, functional organization, procedures, and policies of the establishment. He will perform duties and services as assigned by preceptor and coordinator to include surveillance of and participation in the execution of total services rendered to a minimum of ten clients. Service reports and a project report are required. Prerequisite: all other requirements of the Mortuary Science curriculum must be met.

**280-2 Funeral Service Seminar.** Formal discussions, conducted by the coordinator of the program, to evaluate the experiences and progress of the participants in the Internship Program. Prerequisites: concurrent registrations in VTI U 275.

## *VTI W*

**101-15 (5,5,5) Welding Laboratory.** (a) Gas welding and cutting processes, use of the oxy-acetylene blowpipe, cutting blowpipe, inert gas welding (TIG) and hard soldering. (b) Metallic arc welding on heavy gauge steel using AC and DC welding machines, introducing all positions in metallic arc welding. (c) Metallic arc welding in all positions with special application to electrodes, ferrous, and nonferrous metals. Must be taken in a,b,c or b,c,a sequence concurrently with a corresponding section of 125.

**125-15 (5,5,5) Welding Theory.** (a) Gas welding and cutting theory involving the use of oxy-acetylene equipment, tungsten inert gas equipment, and hard surfacing and soldering techniques. (b) Theory of metallic arc welding, including types of electrodes, welding machines, techniques, and proper joints with mild steels, (c) Theory in metallic arc welding in ferrous and nonferrous alloys.

**175-3 Oxy-Acetylene and Electric Arc Welding.** Provides the machinist and other tradesman with enough welding experience to make simple repairs.

## *VTI X*

**201-2 Job Orientation.** Special instructional sessions offered on personality, clothing, job application, and professional ethics. Preparation of a portfolio consisting of a

personal data sheet, an analysis of prospective employing firms, sample letters of application, and an acceptance or refusal. Practice in being interviewed by representatives of business and industry.

**202-2 Professional Ethics.** Required of the technician within his own craft organization and the ethics necessary in dealing and cooperating with the dental profession. Legal requirements of the technician and the dental laboratory.

## *VTI Y*

**101-18 (6,6,6) Dental Prosthetics Laboratory.** (a) Reproduction of tooth forms by drawings, and carvings in plaster and wax. (b) Removable denture construction including: wire bending, soldering, surveying and casting. (c) Complete denture construction including: bite blocks, recording mandibular movements, setting up full dentures in bilateral balance, carving and festooning, processing of acrylic resins and metal bases, tooth selection. Must be taken in a,b,c sequence concurrently with corresponding section Y 125.

**113-6 (3,3) Science of Dental Materials.** (a) Principles of physical science with emphasis on structures and behaviour of materials used in Dentistry. (b) Lectures and demonstrations on the techniques of preparing restorative materials for the dentist. Includes training for temporary or emergency duty as a chair assistant and in the preparation of amalgam, silicate cement, zinc phosphate cement, self curing acrylic resins, and temporary restorative materials. May be taken in any sequence. Prerequisite: (b) VTI G 115a, Dental Hygiene student.

**125-9 (3,3,3) Dental Prosthetics Theory.** (a) A detailed study of individual tooth form and surface anatomy with emphasis on the relationship of form to function and on nomenclature, introduction to the theory of occlusion. (b) Partial denture design including wire and cast construction, the use of the surveyor and casting techniques. (c) Study of articulation, set up and balance of dentures, artificial tooth form and selection, acrylic resins, and metal bases. Must be taken in a,b,c sequence with a corresponding section of Y 101.

**128-2 Oral Anatomy.** Detailed study of the parts and functions of the temporomandibular articulation: surface oral tissues and the underlying supporting tissues; and supporting structures for bridge abutments.

**130-2 Orientation to Dental Hygiene.** Survey of dental hygiene from anatomy through dental caries, oral diseases, public health, dental health education, and the history of dental hygiene.

**132-8 (4,4) Head and Neck Anatomy.** (a) Structures of the oral cavity with particular emphasis on gross anatomic features, such as skull, muscles, vessels, nerves, and specialized groups of structures, with a view to their pertinence to dental hygiene. (b) Close study of all teeth and reproduction in wax, natural size. Demonstrations and lectures on the normal and abnormal gingiva and perio-dental attachment. Must be taken in a,b sequence.

**135-11 (4,4,3) Oral Basic Science.** The microscopic structure of oral tissues, the normal and abnormal microbial flora of the oral cavity, and the appearance and symptomatology of the oral tissues and organs during disease processes. (a) The microscopic structure of the cells and tissues of the oral region. Illustrated lectures. (b) Basic microbiology with emphasis on the micro-organisms found in the oral cavity in health and disease. Lecture and laboratory. (c) Basic symptoms of inflammation in body tissues, and the appearance of disease entities and developmental disturbances in the oral tissues and structures. Lecture and laboratory. Must be taken in a,b,c sequence.

**137-8 (4,4) Preclinical Dental Hygiene.** Introduction to clinical practice. (a) A study of the instruments used in prophylaxis, scaling techniques, and familiarization with clinical routine. (b) Manikin practice in scaling, porte-polishing and tooth-brushing techniques, followed by practice scaling and polishing on a student-partnership basis. Must be taken in a,b sequence concurrently with 132. Prerequisites: GSA 301.

**139-3 Dental Nutrition.** A study of the nutritional needs, dietary patterns, selection and preparation of healthful foods and their relation to general and oral health.



**140-2 Dental Pharmacology.** Introduction to classes and types of drugs, action on body tissues and organs, specific dental remedies and formulae, and first aid procedure for poisons. Must be taken concurrently with 139. Prerequisite: VTI G 115.

**201-18 (6,6,6) Crown and Bridgework Laboratory.** (a) The practice of gold inlays, crowns, veneers pontics and small bridges, carving, investment casting, soldering and polishing. (b) Practice of advanced types of crown and bridgework and mouth rehabilitation as it involves laboratory procedures. (c) Dental ceramics, precision attachments, dental porcelains, platinum matrices, shadings, staining and glazing, precision attachments used in removable bridgework. Must be taken in a,b,c sequence concurrently with corresponding section of Y 225.

**209-5 Dental Hygiene Clinic (S).** Dental hygiene clinical practice, with particular emphasis on children, including the mentally and physically handicapped. Selected adult patients will also be used in this course to diversify the practice of dental hygiene. Prerequisites: Sophomore status in the Dental Hygiene concentration.

**210-15 (5,5,5) Clinical Dental Hygiene.** Clinical practice on patients with additional lecture and seminar periods. (a) Introduction to clinical dental hygiene practice. (b) Clinical practice for adults and children. (c) Clinical practice and preparation for State and National Board Examinations. Must be taken in a,b,c sequence. Prerequisites: 132, 137, 139, 140, GSA 301, and sophomore standing in dental hygiene.

**213-6 (3,3) Dental Assisting.** Principles of chair-side assisting, the science of dental materials, and basic dental laboratory procedures. (a) Assisting the dentist at the chair and manipulation of restorative materials. (b) Assisting the dentist in the laboratory with study and use of laboratory materials. Must be taken in a,b sequence. Prerequisites: VTI G 115, sophomore standing in dental hygiene.

**216-4 (2,2) Dental Administration and Practice.** (a) Dental Ethics, office administration and general Dental practice. (b) The role of the Hygienist in special practices, the history of dentistry, specialties of dentistry, state regulations and preparation for licensing examinations. Guest lecturers are utilized in specialty areas. Must be taken in a,b sequence.

**217-2 Dental Health Education.** Each student presents talks and demonstrations, leads discussions and seminars, and gives visual presentations of the basic principles of dental health. Visits to selected schools, area health clinics, and suitable dental meetings. Prerequisites: 216, GSD 101a, 101b, 103, GSB 201c, sophomore standing in dental hygiene.

**218-6 (2,2,2) Clinical Dental Roentgenology.** Instruction in the production, use and protection of X-radiation. (a) Theory and production of X-rays; radiation dosage and protection. (b) Technics of angulation, exposure, processing and mounting of bite-wing X-ray films. (c) Technic of full-mouth surveys, longcone exposure technic and extra-oral exposures. Must be taken in a,b,c sequence. Prerequisites: 132, 137, VTI G 115, GSA 301, sophomore standing in Dental Hygiene.

**220-3 Dental Public Health.** A lecture course consisting of a short introduction to public health organization, leading directly into a detailed study of public health dentistry, dental public health administration, practice and research. Emphasis is placed upon the relationship of dentistry and dental hygiene practice to the community.

**225-9 (3,3,3) Crown and Bridgework Theory.** (a) Introduction to crown and bridgework, carving, investing, casting, soldering, and polishing. (b) A study of advanced crown and bridgework and mouth rehabilitation. (c) A study of ceramics, precision attachments, and porcelain jacket crowns. Must be taken in a,b,c sequence with corresponding section of Y 201.

### (Edwardsville Campus)

## ACCOUNTING

**251-12 (4,4,4) Elementary Accounting.** Principles and practices in handling transactions in original recordings and books of account; trial balances, adjustments, and

construction and presentation of financial statements for proprietorships, partnerships, and corporations. Third course in this sequence emphasizes management's uses of the product of the accounting function, through budgeting procedures, cost accounting, and other criteria for sound decision-making. Must be taken in a,b,c sequence.

**331-4 Tax Accounting.** Study of accounting principles and procedures for meeting requirements of current laws and regulations which relate to federal income tax. Laboratory problems and preparation of tax returns with special emphasis on the individual taxpayer. Prerequisite: 251-12.

**341-4 Cost Accounting.** Cost determination and control of manufacturing activities. Interpretation and managerial implications of material, labor, and overhead for job order, process and standard types of cost systems. Cost reports to executives. Prerequisite: 251-12.

**351-8 (4,4) Intermediate Accounting.** Further study of current accounting principles and procedures relating to various elements of financial reporting. Special emphasis on asset valuation, income determination, and alternative statement construction. Also, analysis and interpretation of statements; preparation and use of special statements. Must be taken in a,b, sequence. Prerequisite: 251-12.

**442-4 Advanced Cost Accounting.** Cost accounting for complex process production flows, joint products and by-products, spoilage, defective units and scrap. Managerial control and profit planning through capital budgeting, inventory planning, subjective probabilities, statistical methods, and operations research. Nonmanufacturing costs, differential and comparative cost analysis. Prerequisite: 341.

**453-8 (4,4) Advanced Accounting.** Advanced study of accounting principles and procedures relating to specialized topics, including partnership equity, installment and consignment sales, insurance, branch accounts, compound interest in relation to accounting practice, and preparation and use of consolidated statements. Prerequisite: 351-8.

**456-4 Auditing.** Objectives, standards, and procedures involved in examining and reporting on financial statements of business organizations. Prerequisites: 331, 341, 351-8.

## ECONOMICS

**210-5 Principles of Economics.** The basic principles and tools of economic analysis including national income determination, business fluctuations, price-output determination in product markets, distribution of national income, factor pricing, and other economic problems. Prerequisite: GSB 211a.

**310-4 Labor Problems.** Prerequisites: 210.

## GOVERNMENT

**210-4 American Government.** A general survey of national, state, and local governments. Includes the national and state constitutional principles as required by Illinois Law.

## MANAGEMENT

**170-4 Introduction to Business Administration.** A survey of business, intended to give to the student a general knowledge of the modern business world, a better basis for choosing his speciality, and certain information not covered in the various specialized courses offered.

**240-4 Introduction to Data Processing.** Development of the concept of an organization; problems of coordination and control; feed back loop; management by exception. Study covers machine functions, procedure planning, flow charting and integrated data processing; also, the stored program concept, input-output methods and problems involved with electronic data processing equipment.

**271-4 Business Writing.** Principles and practice in writing typical kinds of business correspondence and reports. Prerequisites: GSD 101b.

**320-4 Corporation Finance.** Financial structure in industry, sources of capital, regu-



lation of securities, of stock exchanges, and the Security and Exchange Commission; dividend and other financial policies. Interpreting corporation reports and evaluating securities through the analysis of financial statements. Prerequisites: Accounting 251c, Economics 210.

**340-4 Business Organization and Management.** Business organization, management theory, and practice.

**361-4 Business Report Writing.** Discussion, illustration, and practical application of report-writing techniques, including study of uses, forms, and structures of different types of reports.

**371-4 Business Law I.** Introduction to the history and philosophy of law, contract law and agency law.

**372-4 Business Law II.** Real property law, personal property law, partnership law and corporation law.

**380-4 Production Management.** Plant location, design, and construction; internal organization for operations, production control, stores control, routing of materials, job analysis, and time study; wage systems, subdivision of executive responsibilities and duties; methods of coordination and planning. Prerequisite: Economics 210.

**382-4 Time and Motion Study.** Principles and methods for simplifying work and establishing sound time-standards for performance.

**385-4 Personnel Management.** Relations of the human element to production; the art of securing understanding and cooperation; employee organizations and outside activities; work of the personnel department; wage standards and working conditions. Prerequisite: Economics 210.

**472-4 Small Business.** Small business analysis, primarily through case studies of business financing, location, organization, merchandising practices, records, government regulation, and taxes. Open only to students with a concentration in business.

## MARKETING

**230-5 Principles of Marketing.** A general survey of the entire field of marketing. Consideration is given to the underlying economic principles; historical development of distributive systems, channels, agents, institutions, functions, policies, and principles. Prerequisite: Economics 210.

**334-4 Credits and Collections.** Organization and operation of the credit department, including the sources and analysis of credit information, collection methods, and correspondence. Retail credit management emphasized. Prerequisite: Marketing 230.

## SECRETARIAL AND BUSINESS EDUCATION

**201-9 (3,3,3) Typewriting.** Mastery of the keyboard, speed and accuracy in the touch operation of the typewriter, and skill and knowledge needed for vocational and personal uses. Must be taken in a,b,c sequence. (a) May not be taken for credit by students who have had previous high school or other formal instruction in typewriting. (b) Prerequisite: 201a or one semester of other formal instruction in typewriting and the ability to type at least 30 words per minute. (c) Prerequisite: 201b or two semesters of other formal instruction in typewriting and ability to type at least 40 words per minute and to prepare simple business correspondence, tables, manuscripts and forms.

**221-12 (4,4,4) Shorthand and Transcription.** The Gregg shorthand system and the development of skill and knowledge required in taking dictation and transcribing it on the typewriter. Must be taken in a,b,c sequence. (a) May not be taken for credit by students who have had previous high school or other formal instruction in shorthand. (b) Prerequisite: 221a or one semester of other formal instruction in shorthand-transcription. (c) Prerequisite: 221b or two semesters of other formal instruction in shorthand-transcription and the ability to take sustained, new-matter dictation at 60 words per minute.

**304-3 Advanced Typewriting.** Development of advanced skills in typing business correspondence, manuscripts, forms, and tables; preparation of copy from rough draft materials. Prerequisite: 201-9 or three semesters of other formal instruction in type-

writing and the ability to type at least 50 words per minute and to prepare business correspondence, tables and manuscripts.

**324-8 (4,4) Advanced Shorthand and Transcription.** The development of high-level dictation and transcription skills and knowledges. Must be taken in a,b sequence. Prerequisites: (a) 221-9 or three semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriter sustained, new-matter dictation taken at 80 words per minute. (b) 324a or four semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriter sustained, new-matter dictation taken at 100 words per minute.

**341-4 Calculating Machines.** Operation of basic types of office calculating machines, emphasizing the characteristic uses of each kind of machine in the office. Laboratory practice required.

**407-4 Office Management.** The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities and layout of the office; office services, procedures, standards, and controls.

**427-4 Records Administration.** The development of records management from its inception, and the recognition of the need for paper work management. Stress on the use of information management techniques in support of organization management, control and evaluation. The course includes each phase of the life of records from creation to disposal or permanent retention. The capabilities of data processing, micro-photography, and new developments in information handling equipment stressed throughout.

## *VTI E*

**100-5 Data Processing Mathematics.** The use of mathematics in modern business. Emphasis upon the development of logical thought processes and careful work habits.

## *VTI G*

**141-5 Introduction to Physiology.** A survey of the functions of the human body for students desiring basic but comprehensive knowledge of human physiology.

## *VTI H*

**112-4 Jury Charge.** Dictation of the Court charges to a jury, opinions, comments of court, counsel to jury, and counsel to court is given so that students will develop speed, accuracy, and vocabulary in the taking of the dictation. Transcripts are made of some of the instructions to the jury, and these transcripts are checked for accuracy. Prerequisite: VTI H 130c or Business Education 221c.

**130-12 (4,4,4) Stenograph Machines.** (a) A study of the principles of stenograph theory with emphasis and intensive drill on brief forms, phrases, and word families. Correct reading and writing techniques are emphasized. Dictation speeds are gradually increased to a minimum 60 words per minute for 5 minutes. Students with one or more years' stenograph machines instruction receive no credit. (b) Provides for learning an automatic vocabulary of brief forms, special forms, and word families. Writing practices on familiar materials and introduction of new material in dictation. Sustained writing situations are gradually introduced. Dictation speeds are gradually increased to a minimum of 80 words per minute for 5 minutes. (c) Dictation speeds to a minimum of 100 words per minute for 5 minutes are required. Intensive drill on brief forms and word families and office-style dictation situations are presented. Typewritten transcripts are introduced. Must be taken in a,b,c sequence.

**210-4 Two-Voice Testimony.** Dual dictation, alternating questions and answers, to give the student practice in taking dictation under these conditions, which occur in court procedure. Prerequisite: VTI H 130c or Business Education 221c.

**230-8 (4,4) Stenograph Machines.** (a) Dictation speeds to a minimum of 110 words



per minute for five minutes are required. Transcription procedures are continued including spelling, vocabulary building, application of grammar, transcription of business letters and reports according to modern business office standards. Prerequisite: H120c. (b) Dictation speeds to a minimum of 120 words per minute for five minutes are required. Transcription of notes taken from the dictation of unfamiliar material, transcription of "cold" notes and notes taken from "natural" dictation. Emphasis on speed development and correct usage of transcription procedures. Must be taken in a,b sequence.

## VTI S

**107-3 Filing and Duplicating.** Basic principles of modern filing systems; alphabetic, subject, numeric, and geographic. Students work with practice filing equipment, learning the rules of indexing, cross referencing, coding, charge-outs, color devices, and setting up a modern system. Basic principles and practice on multiple copy machines. Prerequisite: Business Education 201b or consent of adviser.

**214-5 Cooperative Secretarial Experience.** The student spends either half days or two weeks at a time in an office to gain experience in the field of his concentration. The half-day plan is used within a radius of 20 miles of the institute; in others, part-time placement is planned in the student's home town, or environs, wherever possible. Prerequisite: fifth-quarter standing in secretarial concentration.

**218-5 Cooperative Medical Secretarial Experience.** The student spends either half days or two weeks at a time in an office of a physician, dentist, or hospital to gain experience in the field of his concentration. The half-day plan is used in offices within a radius of 20 miles of the institute; in others, part-time placement is planned in the student's home town, or environs, wherever possible. Prerequisite: fifth-quarter standing in secretarial concentration.

**223-5 Secretarial Office Procedures.** This course is designed for a one-term course to prepare the college-level student for any secretarial position. It analyzes the secretarial profession and stresses the personal qualities needed for success in it, including human relations and good grooming. Specialized secretarial duties such as transmitting mail, handling incoming mail, processing telegraphic messages; receiving callers, and using the telephone; planning travel and recording meetings; using copying and duplicating methods are covered. The course stresses the latest and most efficient secretarial procedures.

**224-6 Legal Shorthand.** Dictation, involving special legal terms, vocabulary building, shortcuts in writing legal terms in Gregg shorthand, or in machine shorthand. Transcription from dictation notes special to the work of a legal secretary. Work in preparation of briefs and legal documents with State of Illinois Standard Form.

**225-12 (6,6) Medical Shorthand.** (a) Advanced dictation involving medical terminology, phrasing, and vocabulary. Special terms and definitions are used in preview of materials, such as medical case histories, x-ray reports, operation reports, and consultation reports that are dictated for transcription. Emphasis is placed on definitions, spelling, and shorthand writing of medical prefixes and suffixes. (b) Increasing speed and proficiency in the writing of medical case histories. Special emphasis is placed on phrases and special terms. Medical secretarial techniques are stressed. Emphasis on increasing speed and proficiency of medical transcripts.

# Faculty . . . 3

Ernest J. Simon, *Dean of University Technical and Adult Education*  
Marvin P. Hill, *Assistant Dean of Technical and Adult Education*  
(*Carbondale*)

E. R. Casstevens, *Assistant Dean of Technical and Adult Education*  
(*Edwardsville*)

William Nagel, *Assistant Dean of Technical and Adult Education in*  
*charge of inter-agency contracts* (*Carbondale*)

M. Keith Humble, *Director of Vocational-Technical Institute* (*Car-*  
*bondale*)

Glenn Wills, *Director of Adult Education* (*Carbondale*)

## CARBONDALE CAMPUS

### ACCOUNTING

**Associate Professor** John William Cundiff, J.D., C.P.A.

**Assistant Professors** Chester Johnson, M.A. (**Chairman of Faculty**); J. Kenneth  
Markwell, M.Ed., C.P.A.

**Instructor** John Kuruc, M.S. in Ed.; J. Eugene Vaughn, M.S.

### ARCHITECTURAL TECHNOLOGY

**Assistant Professors** Paul Lougeay, B.S. (**Chairman of Faculty**); Franklin Bassett,  
B.S.; Joseph Lete, B.S.; Harold Little, B.S.

**Instructor** Clifton Rutledge, B.A.

### AUTOMOTIVE TECHNOLOGY

**Assistant Professor** L. D. Willey, B.Ed. (**Chairman of Faculty**); Lewis Runkle, M.Ed.

**Instructors** Paul Jones, James McDonald, B.S.; O. B. Ray, B.S.

**Assistant Instructor** Everett Shelton

**Lecturer** James White, B.S.

### AVIATION TECHNOLOGY

**Associate Professor** Edmund DaRosa, B.A. (**Chairman of Faculty**)

**Instructors** Garey Redmond, B.S.

### BUILDING CONSTRUCTION TECHNOLOGY

**Assistant Professors** Paul Lougeay, B.S. (**Chairman of Faculty**); Franklin Bassett,  
B.S.; Joseph Lete, B.S.; Harold Little, B.S.

**Instructor** Clifton Rutledge, B.A.

### COMMERCIAL ART

**Associate Professor** Daniel Boza, F.A.A.R. (**Chairman of Faculty**)

**Instructors** Richard Hoffman, B.F.A.; Kermit Ruyle; Doris Swayne, B.S.Ed.

### COOPERATIVE RETAILING

**Associate Professor** Walter Elder, M.S. (**Chairman of Faculty**)

**Assistant Professor** Ruth H. Burnett, M.S.



**COSMETOLOGY**

**Lecturers** Gladys McVey, (Chairman of Faculty); Loretta Cassidy, Shirley Hill

**DENTAL HYGIENE**

**Assistant Professor** Eleanor Bushee, D.D.S. (Chairman of Faculty); Frank Atwood Vandever, Jr., D.D.S.

**Assistant Instructor** Deborah Ann Rinehart, B.S.

**DENTAL LABORATORY TECHNOLOGY**

**Assistant Professor** William Moore Leebens, D.D.S. (Chairman of Faculty)

**Instructors** Peter Bykowski, C.D.T.; George Pennock, C.D.T.

**Lecturers** William Joy, C.D.T.; Charles Christy, C.D.T.

**ELECTRONICS TECHNOLOGY**

**Assistant Professors** Raymond Schultz (Chairman of Faculty); Charles Green, M.S.Ed.; Paul Caldwell, M.S.Ed.

**ELECTRONIC DATA PROCESSING (Business or Industrial Option)**

**Assistant Professor** James Robb, M.A. (Chairman of Faculty)

**Assistant Instructor** Robert Dick, B.S.

**Instructor** Marie Humphreys, M.A.

**FOREST PRODUCTS TECHNOLOGY**

**Assistant Professor** William Rice, Ph.D. (Chairman of Faculty)

**Instructor** Harold Osborn, M.S.Ed.

**GENERAL STUDIES**

**Assistant Professor** Jason Collins, M.S.Ed. (Chairman of Faculty)

**Instructors** Susan Amirie, M.S.; Frank Bietto, M.S.; Dorothy Bleyer, M.S.Ed.; Floyd Choate, M.A.; Larry R. Cobb, M.A.; Howard Crenshaw, M.S.; Charles Crowe, M.A.; Louise F. Graham, M.A.; James Harbison, M.S.; Richard B. Johnson, B.A.; Ronnetta Kahn, M.A.; Phyllis E. Riess, M.A.; Dorothy J. Rudoni, M.A.; William Venable, M.S.; Arthur Workun, M.S.; Mary Wright, B.S.

**Assistant Instructors** Glenna S. Hayes, M.A.; Robert Miller, B.A.

**Lecturers** Diana Fairfield, B.A.; Emilyn Morris, M.S.Ed.

**MACHINE DRAFTING & DESIGN TECHNOLOGY**

**Assistant Professors** Frank Muhich, M.S.Ed. (Chairman of Faculty); Clarence Beauchamp, M.S.; Duncan Lampman, M.S.Ed.

**MORTUARY SCIENCE**

**Assistant Professors** Walter Thorsell, B.A. (Chairman of Faculty); Donald Hertz, M.S.Ed.

**PRACTICAL NURSING**

**Assistant Professor** Winifred Mitchell, R.N.; B.S. (Chairman of Faculty)

**Instructors** Minnie Alcorn, R.N.; Beatrice Chiodini, R.N.

**PRINTING**

**Instructor** H. S. Cornell, M.S. (Chairman of Faculty)

**SECRETARIAL**

**Assistant Professor** Chester Johnson, M.A. (Chairman of Faculty)

**Instructors** Margaret Garrison, M.S.Ed.; Paul McInturff, M.S.; Theresa Miriani, M.S.; Carol Reed, M.S.; James Tooley, M.S.Ed.

**Assistant Instructor** Winifred Norman, B.S.

**TOOL AND MANUFACTURING TECHNOLOGY**

**Associate Professor** Harry Soderstrom, M.S.

**Assistant Professors** Frank Muhich, M.S.Ed. (**Chairman of Faculty**); Charles Crookshank, M.A.

**Instructors** Donald Foss, B.S.; Lelon Traylor, M.S.

**WELDING**

**Assistant Professors** Murnice Dallman, M.S.Ed. (**Chairman of Faculty**); John Griswold, M.Ed.

**ADULT EDUCATION**

**Professors** Isaac Brackett, Ph.D.; William Herr, Ph.D.; Frank Klingberg, Ph.D.; J. P. Vavra, Ph.D.; William Westberg, Ph.D.; Walter Wills, Ph.D.

**Associate Professors** Ralph Benton, Ph.D.; Thelma Berry, Ph.D.; H. H. Olson, Ph.D.; J. J. Patterson, M.S.; Herbert Portz, Ph.D.

**Assistant Professors** Harold F. Engelking, M.S. (**Supervisor**); Ray Rainbow, Ph.D.

**Instructors** Sue Ridley, M.S.; Norman Slack, M.S.; Lucy Stewart, M.S.

**Assistant Instructor** Charles J. Fee, B.S. (**Supervisor**)

**Lecturers** Marianne Abrahamson; Lurita Adams, B.S.; Christina K. Aiassi, M.S.; Robert L. Andresen, A.M.; Helen Barr, M.A.; Paul Bateman; Margaret Bellamy, M.A.; Barbara Benard, B.S.; Araminta Bigelow; Shirley Bigham, B.S.; Robert Boudet; Stanley Boulee, M.S.; Kent Brandon, J.D.; Dellis Buzbee, M.S.; Berleen Carlton, B.A.; Gladys Caveny; Ray Cohee, A.B.; Hicks Cornett, M.S.; Charles Craig, B.S.; Ruth Crain, M.S.; Nelson Curtis; Marianne Dardis; Paul Devor, B.A.; Dale Dillard, M.S.; Donna Draper; Chris Elkins, B.S.; Carol Grant, M.A.; Claude Grotts, B.P.A.; Pauline Haden; Eula Hamilton, B.S.; Jerry Hartley, B.A.; Edward E. Hawkins; Earl Hendricks, J.D.; Delana Hines, B.S.; Emma Holmes, B.S.; Stanton Hughes, B.S.; Jerald Humble; Kenneth Hurt, B.S.; Richard A. Isenberg, B.S.; Alice B. Jackson, B.A.; Florence Jaenke, M.A.; Jeanne Jennings, B.S.; Harold G. Johns, B.S.; Edith Johnson, M.S.; Kent Kirberg, B.S.; Clifton Kirk, M.Ed.; Alice D. Kniker, B.S.; Harold Krummel, M.A.; Charles Lerner, L.L.B.; Julian Levesque, M.A.; James P. Loy; Murrell J. Loy, M.S., C.P.A.; Maurice T. Macy, L.L.B.; Patricia McCuiston, B.S.; Charlotte McRoy, B.S.; Willis Miller, M.A.; William Mills; Josephine Miriani; Roscoe Misselhorn; Eardle Morgan, M.S.; Anna Morris, B.A.; Martha Mulch, B.A.; Opal Nave, B.S.; Sheila Newcom, B.S.; Merna O'Brien, B.S.; Van Parsons, B.S.; Charles Peterson; Vey Pyatt, B.S.; Finis Rayburn; Thomas Redickas; Marilyn Retzer, B.S.; Violet Rhodes, B.S.; Ralph Richart, B.S.; Don Ross, M.F.A.; Marvin Schroeder, M.S.; Ray Shannon, B.S.; Don Slinkard; Evelyn Smith, B.Ed.; Margaret Smith, B.Ed.; Paul A. Snider, B.S.; John Steele, M.S.; Genevieve Sutliff; Aline Travelstead, M.S.; Dee Ann Umar, B.S.; James Upchurch; Gary Vaughn, B.S.; John L. Vaughn, B.S.; Darcy Vaught, B.S.; Marie A. Vincenti, B.S.; Paul Walker, M.S.; George Williams; Gary Worth, A.A.

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# Index



·  
·  
·  
·  
·  
·  
·

- Academic advisement, 4, 42
- Academic load, 5
- Accounting, program in, 16, 42
- Activities, student organizations and, 2
- Admission, to Vocational-Technical Institute, 3; to Edwardsville Campus, 41-42
- Adult education, Carbondale Campus: typical courses, 38-40; teaching staff mentioned, 40, 73-75; educational planning committee, 40
- Adult education, Edwardsville Campus: programs in, 46-49; teaching staff, 75
- Advanced development program for middle management, 48
- Advisement, academic, 4, 42
- Advisory committees to Vocational-Technical Institute, 10-13
- Architectural technology, program in, 23
- Art, commercial, program in, 14
- Associate degree program, mentioned, 2, 41
- Associate in Art degree, programs at Vocational-Technical Institute, 14-16
- Associate in business degree: mentioned, 14; programs at Vocational-Technical Institute, 14-16; programs at Edwardsville Campus, 42-46
- Associate in technology degree: mentioned, 22; programs at Vocational-Technical Institute, 21-35
- Automotive technology, program in, 23
- Aviation technology, program in, 24
- Bookkeeping-clerical, program in, 21
- Building construction technology, program in, 28
- Business, associate degree program in, 16-21
- Business, certificate program in, 21-22
- Business, associate degree program at Edwardsville, 42-46
- Certificate programs in business, 21
- Certificate programs in technology, 36
- Commercial Art, program in, 14
- Construction technology, building, program in, 28
- Cooperative retailing, program in, 20
- Cosmetology, program in, 36
- Course descriptions, at Vocational-Technical Institute, 51-68; at Edwardsville Campus, 68-72
- Degrees awarded by Vocational-Technical Institute, 2
- Dental Hygiene, program in, 15
- Dental Laboratory technology, program in, 28
- Design technology, machine drafting and, program in, 32
- Development program for middle management, 47
- Division of Technical and Adult Education. See Technical and Adult Education, Division of
- Electronic data processing (business option), program in, 17
- Electronic data processing (Industrial option), program in, 30
- Electronics technology, programs in, 29
- Examinations, proficiency, 7
- Executive secretarial, program in, 18
- Faculty, at Vocational Technical Institute, 73-75, at Edwardsville Campus 75
- Fees, tuition and, 4
- Financial Assistance, student, 9
- Forest products technology, program in, 31
- Funeral service, mortuary science and, program in, 34
- General Studies requirements, 13
- Grading system, 5
- Graduation, 42
- Health Service, mentioned, 8
- High school preparation, 41
- Honors day, 8
- Housing, at Carbondale, 9: at Vocational-Technical Institute, 9
- Industrial management program, 46



- In-Plant program, 47
- Legal secretarial program, 18, 44
- Load, academic, 5
- Machine drafting and design technology, program in, 32
- Management, program in, 44
- Medical secretarial program, 19, 45
- Middle management, development program for, 47
- Middle management, advanced development program for, 48
- Morris Library, 9
- Mortuary science and funeral service, program in, 34
- Nursing, practical, program in, 37
- Placement Services, mentioned, 41
- Practical Nursing, program in, 37
- Printing technology, program in, 35
- Probation, scholastic, 6
- Proficiency examinations, 7
- Programs, Edwardsville Campus, 46
- Retailing, cooperative, program in, 20
- Registration, 4
- Scholastic probation, 6
- Secretarial programs: executive, 18, 43; legal, 18, 44; medical, 19, 45
- Southern Illinois University, 1
- Special Courses, programs, and conferences, 48
- Special services at Vocational-Technical Institute, 8
- Staff, teaching, 73-75
- Stenographic program, 21
- Student financial assistance, 9
- Student organizations and activities, 2
- Student work program, 9
- Technical and Adult education, Division of: mentioned, 1, 41; establishment of, 1; responsibilities of, 1; functions of, 38, 46; typical courses in Adult Education offered by, 38-40, 46-49
- Technology, programs in, 21-35
- Textbook service, 9
- Tool and manufacturing technology, program in, 33
- Traffic management, 47
- Tuition and fees, 4
- University, Southern Illinois, 1
- University Store, 9
- Vocational-Technical Institute, 1
- Welding, program in, 37
- Work program, student, 9



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*Schedule of Classes*  
*Edwardsville Campus*  
*Spring Quarter, 1967*



**Southern Illinois**  
**University Bulletin**



## This Bulletin

contains the schedule of classes to be offered by the Edwardsville Campus for the spring quarter of the 1966-67 school year at Edwardsville, Alton, and East St. Louis. It also provides information relative to admission, advisement, registration, and fees.

# Schedule of Classes

*Edwardsville Campus*

*Spring Quarter, 1967*

SOUTHERN ILLINOIS UNIVERSITY BULLETIN

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# Contents

University Calendar .....	ii
Registration Calendar .....	i
GENERAL INFORMATION .....	
Admission .....	
Social Security Number .....	
Required Tests .....	
Advisement .....	
Required Physical Examinations .....	
Registration .....	
New Students .....	
Re-Entering Students .....	
Current Students, Edwardsville Campus .....	
Current Students, Carbondale Campus .....	
Payment of Fees .....	
Fees for a Regular Quarter .....	
Academic Load .....	
Prerequisites .....	
Auditing of Courses .....	
Registering for and Dropping Courses .....	
Changing Fee Status .....	
Withdrawal from School .....	
Cancellation of Registration .....	
Personal Data Changes .....	
SCHEDULE OF CLASSES .....	
Explanation of the Schedule .....	
Final Exam Schedule .....	10
Spring Classes .....	13

# University Calendar

## *Winter Quarter, 1967*

Quarter Begins	Tuesday, January 3 (4:30 P.M.)
Final Examinations	Monday-Saturday, March 13-18
Quarter Closes	Saturday, March 18

## *Spring Quarter, 1967*

Quarter Begins	Monday, March 27 (4:30 P.M.)
Memorial Day Holiday	Tuesday, May 30
Final Examinations	Monday-Saturday, June 5-10
Quarter Closes	Saturday, June 10

## *Summer Quarter, 1967*

Quarter Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Monday-Saturday, August 28-September 2
Commencement (Edwardsville)	Friday, September 1
Commencement (Carbondale)	Saturday, September 2



# Registration Calendar

## Spring Quarter, 1967

STUDENTS WILL REGISTER FOR CLASS SCHEDULED AT ALL LOCATIONS AT THE ENROLLMENT OFFICE, ROOM 1302, PECK BUILDING, EDWARDSVILLE CAMPUS.

February 6-11: Pick up appointment cards—Enrollment Office, Peck Building, Edwardsville, and Academic Services Office, Alton and East St. Louis.

Monday-Thursday: 8:00 A.M. to 6:00 P.M.

Friday: 8:00 A.M. to 5:00 P.M.

February 13-March 17: Registration period for all students. New and re-entry students must have completed admission procedures. New students should refer to page 2 for further information on advisement and registration.

Monday-Friday: 8:00 A.M. to 11:00 A.M. and 1:00 P.M. to 3:30 P.M.

Tuesday: will remain open to 6:00 P.M.

Saturday: 8:00 A.M. to 11:00 A.M. All registration will be by appointment.

*All continuing students are expected to be registered by March 17.*

March 20-24: Registration period for all students. New students should refer to page 2 for information on advisement and registration.

Monday-Thursday: 10:00 A.M. to 7:00 P.M.

Friday: 8:00 A.M. to 11:30 A.M. and 1:00 P.M. to 3:30 P.M.

March 27: No appointment necessary. Spring quarter begins. Evening classes (4:30 P.M. or later) begin. Last day of regular registration period. Only new and re-entering students will be advised and registered. *All students are expected to have completed registration by this date.*

- tion by this date. Any exceptions will involve late registration fee charges.*
- March 28: Day classes begin.
- April 1: Registration for spring quarter ends. This also includes registration into new courses or program adjustments through the program change process. Deadline for payment of fees by students whose fees are deferred.
- April 8: Last day to withdraw from school to be eligible for refund of fees.
- April 22: Last day to withdraw from a course without receiving a letter grade.
- May 27: Last day to withdraw from school or a class except under exceptional circumstances.
- June 10: Last day of the spring quarter.





# General Information

1

THIS BULLETIN contains the schedule of classes to be offered at the Edwardsville Campus and the Alton and East St. Louis centers for the spring quarter. It also provides information relative to advisement and registration, fees, and allied information.

The Edwardsville Campus provides a full schedule of class offerings for day and evening students. Freshman and sophomore courses are scheduled for day and evening students at the Alton and East St. Louis centers.

## ADMISSION

Inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office at Edwardsville. Applications for admission are accepted at any time during the calendar year but should be initiated at least 30 days prior to the start of the quarter which the student plans to attend.

A student must be officially admitted to the University before registration for classes will be permitted. Students who have not completed the admission requirements by the first day of the quarter will not be permitted to register. A student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

## SOCIAL SECURITY NUMBER

Each student seeking admission to the University will need to present a social security number for identification purposes. Any local social security office can provide assistance in obtaining a number or replacing a lost card. At Alton the social security office is in the Germania Savings Building, 543 East Broadway; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment Office, 111 West Vandalia, provides social security information.

## REQUIRED TESTS

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in March, April, and June. Information and application blanks are normally available through the high school

guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

### **A D V I S E M E N T**

The Edwardsville Campus advisement system requires all new students to have initial advisement through the General Studies Advisement Office. Freshmen and sophomores will continue to be advised each quarter prior to registration. Following the student's declaring a major (between reaching 64 and 96 hours of credit), the student is assigned to an adviser in his concentration area. Each student is required to declare a concentration upon achieving 96 hours of credit.

### **REQUIRED PHYSICAL EXAMINATIONS**

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.

### **R E G I S T R A T I O N .**

Registration for all students currently enrolled or who have been accepted for admission will take place at the Enrollment Office on the Edwardsville Campus. All General Studies students are required to have approval of their schedule by the General Studies Advisement Office.

After advisement the student may register for classes. The registration calendar begins on page iv. The enrollment office is open from 8:00 A.M. to 12:00 Noon and 1:00 P.M. to 4:00 P.M., Monday through Friday, and from 8:30 A.M. to 11:00 A.M. on Saturday.



During the registration process the student goes to the enrollment office where the assignment is made to specific sections of the courses he is to take.

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class.

### *NEW STUDENTS*

Students entering the University for the first time are permitted to register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

Dates for new undergraduate students, freshmen and transfer, will be selective ones in which the students are asked to come to the campus on specific registration dates determined by the University. Students should not expect to be advised and registered on the same date they are admitted. Appointments for registration will be mailed to them and are to be returned to the Registrar's Office.

New graduate students after advisement may register during the registration period from July 18 through August 1 and September 12-16. Arrangements should be made with the Graduate School to assure that the appropriate adviser will be available before coming to the campus.

### *RE-ENTERING STUDENTS*

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to register during the periods outlined in the Registration Calendar. Readmission procedures must be completed prior to registration.

### *CURRENT STUDENTS, EDWARDSVILLE CAMPUS*

For admittance to registration students previously enrolled must present their Southern Illinois University ID cards. No one will be permitted to register without an ID card except new students. Each student currently registered in the University will be continued in his present course of study unless a change of concentration is made. A change of concentration is initiated with the chief academic adviser. The change should be made at the time of advisement; the registrar's copy of the change form should accompany the student's registration. A change of concentration made after a registration has been processed will not be reflected in the student's record until the next registration.

Upperclass students who have declared a concentration and who are currently registered in the University may be self-advised for registration purposes. Academic advisement is available and is desirable. The student should prepare his desired program of classes at each registration period and process through the sectioning area of the enrollment office in accordance with the time

of his appointment in order to best achieve the desired schedule of classes and time periods.

### *CURRENT STUDENTS, CARBONDALE CAMPUS*

A student currently enrolled in and attending classes at the Carbondale Campus who desires to register on the Edwardsville Campus will initiate his registration at the sectioning area of the enrollment center in Edwardsville in accordance with the registration calendar except that he may register on the first day of the quarter. Each student will complete the intra-university transfer data form to secure information necessary for the Edwardsville data processing center preparation of registration material. The student who registers on the first day of the quarter should present his most recent grade report to confirm scholastic eligibility to register.

For the purpose of advisement, the student may wish to have a copy of his transcript sent to the Edwardsville Campus prior to registration.

### *PAYMENT OF FEES*

All fees are payable at the time of registration. Upon payment of fees, the fee statement and receipt card will be stamped by the Business Office and returned to the student as a fee receipt. The card should be carried at all times. It serves as official authorization to attend classes as scheduled and must be presented to obtain books and activity cards and to process program change.

#### *FEES FOR A REGULAR QUARTER*

The University reserves the right to change fees and to have the change go into effect whenever the proper authorities so determine. Under the current fee schedule Illinois undergraduate students taking more than 8 hours pay the following regular fees:

Tuition .....	\$42.00
Book rental .....	8.00
Activity fee .....	10.50
Student Welfare and Recreational Facilities Building Trust Fund Fee .....	15.00
Student union building fund fee .....	5.00
Total .....	<u>\$80.50</u>

Out-of-state students will pay an additional tuition of \$130 if taking more than 8 hours and an additional \$65 if taking 8 hours or fewer.

An Illinois undergraduate taking 8 or fewer hours will pay half tuition and book rental, will have an option of paying the activity fee, and will pay the full Student Union fee. Once an option has been made by a student at the time of registration as to whether or not to pay the activity fee, such option is irrevocable. A part-time student, then, will pay either \$30 or \$40.50.

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status.

## ACADEMIC LOAD

The normal class load is 16 quarter hours for undergraduate students and 12 quarter hours for graduate students. The maximum load for both is 18 hours. A student with a 4.25 average or above for the preceding quarter may be allowed by the chief academic adviser or by the head of his division to take as many as 21 hours. In no case may a student carry or be credited with more than 21 hours in any quarter. A student on probation may not take more than 14 hours.

A person may not register for more than 8 hours if he is employed full time.

The Selective Service System requires a minimum of 12 hours to qualify for a student deferment. There is a further requirement that he complete 48 hours each year.

The National Defense Education Act requires a minimum of 12 hours to qualify for a student loan.

## PREREQUISITES

Students are responsible for checking course prerequisites in the catalog. Those who do not have specific prerequisites for a course may register for it only if they have had a comparable course or have written consent of the instructor.

## AUDITING OF COURSES

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter.

## REGISTERING FOR AND DROPPING COURSES

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program adjustment be approved permitting registration in that class. A student is officially registered only for those



courses and sections appearing on his registration cards. Changes can be made only after fees are paid and must be made through an official program change.

A General Studies student desiring to make a program change must secure approval of the General Studies Advisement Office. He, and any other student desiring to make a program change, will then go to the Enrollment Center. (Starting the second week of the quarter an evening student at East St. Louis or Alton may initiate his request to drop a course by going to the General Office.) He is required to present his fee receipt program card and must complete the following procedure. (1) After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. (2) The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. (3) A student has not completed his program change until he presents it to the Enrollment Center. **NO CHANGE IS OFFICIAL UNTIL THE PRECEDING PROCEDURE IS COMPLETED.**

A student who finds it necessary to make an adjustment to his program by adding or dropping a course may do so during normal office hours at the Edwardsville Enrollment Office after payment of fees. (No changes will be made on the first day of the quarter.) A program adjustment must be made to drop or add a course. A student may not drop a course merely by stopping attendance. Failure to officially drop a course may result in academic penalty. The last date for dropping a course without receiving a *W* grade is the last day of the fourth week of the quarter. (Refer to registration calendar.)

## **CHANGING FEE STATUS**

Students making program changes which result in their changing from part-time fee status to full-time fee status will be assessed additional tuition and fees. Students changing from full-time fee status to part-time fee status may apply for full refund of the student welfare and recreational facilities building trust fund fee plus a partial refund of their tuition and book rental fee (**ACTIVITY FEE IS NOT REFUNDABLE**) provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendar beginning on page iv.

## **WITHDRAWAL FROM SCHOOL**

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions.

refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who registers and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

## CANCELLATION OF REGISTRATION

Registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons certified to the Registrar by the Director of Student Affairs.

## PERSONAL DATA CHANGES

At the time of registration students are asked to review Biographic Data Sketch containing personal data. Certain items, if in error, are corrected at that time. Other items, which may require some type of verifying evidence, are changed by reporting to the Enrollment Section of the Registrar's Office.

1. ADDRESS CHANGES. Should be reported immediately either at the time of registration or at the Registrar's Office.
2. NAME CHANGES. Should be made at the Enrollment Section of the Registrar's Office. Verification is required.
3. MARITAL STATUS CHANGES. Should be made at the Enrollment Center.
4. LEGAL RESIDENCE CHANGES (whether an Illinois or out-of-state resident.) Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

# Schedule of Classes

## 2

*The University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.*

### EXPLANATION OF THE SCHEDULE

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:  
**Bold-Face Line:** The course's identification number is followed by the number of quarter hours of credit and the descriptive title. Special registration information or other remarks about the course may appear on a second bold-face line.

**Light-Face Lines:** The first column lists the section numbers (first digit always 0) for classes offered at Edwardsville; the second lists sections (first digit always 2) for classes offered at Alton; the third lists sections (first digit always 4) offered at East St. Louis. Following each section number are the time the class begins (between 7:00 A.M. and 5:20 P.M. for daytime classes) and the time it ends. The section number of each evening class has the letter E prefixed. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

000-099 Courses not properly falling in the following categories

100-199 For freshmen

200-299 For sophomores

300-399 For juniors and seniors

400-499 For seniors and graduate students

500-600 For graduate students only

Students registering for courses listed as "Arranged" should consult the instructor indicated, or the head of the division if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

ANA —Annex A—Alton

ANB —Annex B—Alton

AUD —Auditorium—Alton



COM	—Communications Bldg.—Edwardsville
ESL	—East St. Louis Center
FAA	—Fine Arts Building A—Alton
FAB	—Fine Arts Building B—Alton
FAC	—Fine Arts Building C—Alton
GC	—John Mason Peck General Classroom Building—Edwardsville
GYM	—Gymnasium—Alton
HUM	—Humanities Building—Alton
LB	—Lovejoy Memorial Library— Edwardsville
SCI	—Science Building—Alton
SL	—Science Laboratory Building— Edwardsville
SS	—Social Science Building—Alton
S and T	—Science and Technology Building— Alton
TV	—Radio and Television Center—Alton
397	—Cartography Laboratory—East St. Louis
Wagner	—Wagner Building—Edwardsville

# Final Examination Schedule, Winter Quarter, 1967

## March 13-18, 1967

	Mon. Mar. 13	Tues. Mar. 14	Wed. Mar. 15	Thurs. Mar. 16	Fri. Mar. 17	Sat. Mar. 18
8:00 to 9:40	All classes beginning at 8:30, except Tu and/or Th only.	Classes beginning at 8:30 Tu and/or Th only	Classes beginning at 9:30, Tu and/or Th only	All classes beginning at 9:30, except Tu and/or Th only		At regular class sessions
10:00 to 11:40	Classes beginning at 10:30 Tu and/or Th only	All classes beginning at 11:30, except Tu and/or Th only	All classes beginning at 10:30, except Tu and/or Th only	Classes beginning at 11:30, Tu and/or Th only	Make-up	
12:20 to 2:00	All classes beginning at 1:30, except Tu and/or Th only	All classes beginning at 12:30, except Tu and/or Th only	Multiple-Section Block (English) See Announcement	Classes beginning at 1:30 Tu and/or Th only	Classes beginning at 12:30 Tu and/or Th only Make-up	
2:20 to 4:00	Classes beginning at 2:30 Tu and/or Th only	Classes beginning at 3:30 Tu and/or Th only	All classes beginning at 3:30, except Tu and/or Th only	All classes beginning at 2:30, except Tu and/or Th only	Make-up	
Evening Classes	At regular sessions					

June 5-10, 1967

	Mon. June 5	Tues. June 6	Wed. June 7	Thur. June 8	Fri. June 9	Sat. June 10
8:00 to 9:40	All classes beginning at 8:30, except Tu and/or Th only.	Classes beginning at 8:30 Tu and/or Th only	Classes beginning at 9:30, Tu and/or Th only	All classes beginning at 9:30, except Tu and/or Th only		At regular class sessions
10:00 to 11:40	Classes beginning at 10:30 Tu and/or Th only	All classes beginning at 11:30, except Tu and/or Th only	All classes beginning at 10:30, except Tu and/or Th only	Classes beginning at 11:30, Tu and/or Th only	Make-up	
12:20 to 2:00	All classes beginning at 1:30, except Tu and/or Th only	All classes beginning at 12:30, except Tu and/or Th only	Multiple-Section Block (English) See Announcement	Classes beginning at 1:30 Tu and/or Th only	Classes beginning at 12:30 Tu and/or Th only Make-up	
2:20 to 4:00	Classes beginning at 2:30 Tu and/or Th only	Classes beginning at 3:30 Tu and/or Th only	All classes beginning at 3:30, except Tu and/or Th only	All classes beginning at 2:30, except Tu and/or Th only	Make-up	
Evening Classes	At regular sessions					





Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					

## MAN'S PHYSICAL ENVIRONMENT AND BIOLOGICAL INHERITANCE (GSA)

### 101a-3 Introduction to Physical Science

Student enrolls in lecture and one lab. (Lab and Friday lecture meet every other week.)

Lect A	8:30-9:20	M	W	F	SL 1105	Hakeem
Lab 001	8:30-10:20		Th		SL 1217	staff
Lab 002	10:30-12:20		Th		SL 1217	staff
Lab 003	12:30-2:20		Th		SL 1217	staff
Lab 004	2:30-4:20		Tu		SL 1217	staff
Lect B	9:30-10:20	M	W	F	SL 3225	staff
Lab 005	2:30-4:20		W		SL 1217	staff
Lab 006	10:30-12:20			F	SL 1217	staff
Lect C	8:30-9:20	M	W	F	ANA 108	Zurheide
Lab 201	8:30-10:20		Tu		SCI 007	Zurheide
Lab 202	10:30-12:20		Tu		SCI 007	Zurheide
Lect D	8:30-9:20	M	W	F	ESL 212	Slotboom
Lab 401	8:30-10:20		Tu		ESL 124	Slotboom
Lab 402	10:30-12:20		Tu		ESL 124	Slotboom

### 101b-3 Introduction to Physical Science

Student enrolls in lecture and one lab. (Lab and Friday lecture meet every other week.)

Lect A	3:30-4:20	M	W	F	SL 1105	Boedeker
Lab 001	10:30-12:20		Tu		SL 1218	staff
Lab 002	12:30-2:20		Tu		SL 1218	staff
Lab 003	2:30-4:20		Tu		SL 1218	staff
Lect B	2:30-3:20	M	W	F	SL 1105	staff
Lab 004	8:30-10:20	M			SL 1218	staff
Lab 005	3:30-5:20	M			SL 1218	staff
Lab 006	8:30-10:20		Tu		SL 1218	staff
Lect C	3:30-4:20	M	W	F	SCI 200	Rockman
Lab 201	12:30-2:20			Th	SCI 007	Rockman
Lab 202	2:30-4:20			Th	SCI 007	Rockman
Lect D	3:30-4:20	M	W	F	ESL 115	Slotboom
Lab 401	10:30-12:20			Th	ESL 124	Slotboom
Lab 402	12:30-2:20			Th	ESL 124	Slotboom

### 101c-3 Introduction to Physical Science

Lect A	1:30–2:20	Tu	Th	SL 1105	Parrill
Lab 001	12:30–2:20	M		SL 1209	Parrill
Lab 002	12:30–2:20		W	SL 1209	Parrill
Lab 003	12:30–2:20		F	SL 1209	staff
Lab 004	2:30–4:20	M		SL 1209	Stallard
Lab 005	2:30–4:20		W	SL 1209	Stallard
Lect B	6:30–7:20	Tu	Th	SL 1105	staff
Lab E006	7:30–9:20	Tu		SL 1209	staff
Lab E007	7:30–9:20		Th	SL 1209	staff
Lab E008	4:30–6:20	Tu		SL 1209	staff
Lect C	12:30–1:20	Tu	Th	ANA 104	Firsching
Lab 201	12:30–2:20	M		SCI 205	Bardolph
Lab 202	12:30–2:20		W	SCI 205	Bardolph
Lab 203	12:30–2:20		F	SCI 205	Bardolph
Lab 204	2:30–4:20	Tu		SCI 205	Firsching
Lect D	8:30–9:20	Tu	Th	ESL 212	Stallard
Lab 401	1:30–3:20	Tu		ESL 125	Stallard
Lab 402	1:30–3:20		Th	ESL 125	Stallard
Lab 403	11:30–1:20	Tu		ESL 125	Stallard

### 110a-4 Earth and Its Environment

Lect A	2:30-3:20	MTuW			SL 1215	Gore
Lab 001	12:30-2:20			F	SL 1215	staff
Lect-						
Lab e002	6:30-8:20		Tu	Th	SL 1215	Gore

### 200-3 Earth Science

Lect A	9:30–10:20	M	W	SL 1215	Yarbrough
Lab 001	8:30–10:20		Th	SL 1215	staff
Lab 002	8:30–10:20		F	SL 1215	staff
Lect B	11:30–12:20	M	W	SL 1215	Collier
Lab 003	10:30–12:20		Th	SL 1215	staff
Lab 004	10:30–12:20		F	SL 1215	staff
Lect C	12:30–1:20	M	W	SL 1215	Yarbrough
Lab 005	12:30–2:20		Tu	SL 1215	staff
Lab 006	12:30–2:20		Th	SL 1215	staff
Lect-					
Lab e007	6:30–8:20	M	W	SL 1215	Yarbrough
Lect F	10:30–11:20	M	W	SL 1215	Baker

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					

**200-3 Earth Science**

Lab 008	10:30-12:20	Tu		SL 1215	staff
Lab 009	8:30-10:20	Tu		SL 1215	staff
Lect E	9:30-10:20	M	W	ESL 105	Gore
Lab 401	8:30-10:20		Th	397-001	staff
Lab 402	8:30-10:20		F	397-001	staff

**201a-3 Man's Biological Inheritance**

Lect A	8:30-9:20	M	W	GC 2405	Wooldridge
Lab 001	8:30-10:20	Tu		SL 2211	Wooldridge
Lab 002	10:30-12:20	Tu		SL 2211	staff

**201b-3 Man's Biological Inheritance**

Lect A	10:30-11:20	M	W	GC 2405	Thomerson
Lab 001	8:30-10:20		Th	SL 2211	staff
Lab 002	10:30-12:20		Th	SL 2211	staff
Lab 003	1:30-3:20		Th	SL 2211	staff
Lab 004	3:30-5:20		Th	SL 2211	staff
Lab 005	1:30-3:20	Tu		SL 2211	staff

**201c-3 Man's Biological Inheritance**

Lect A	2:30-3:20	Tu	Th	SL 1105	Keating
Lab 001	8:30-10:20	M		SL 2211	staff
Lab 002	10:30-12:20	M		SL 2211	staff
Lab 003	1:30-3:20	M		SL 2211	staff
Lab 004	3:30-5:20	M		SL 2211	staff
Lab 005	8:30-10:20		W	SL 2211	staff
Lab 006	10:30-12:20		W	SL 2211	staff
Lab 007	1:30-3:20		W	SL 2211	staff
Lab 008	8:30-10:20		F	SL 2211	staff
Lect B	6:30-8:20	Tu		SL 3225	staff
Lab E009	6:30-8:20		W	SL 2211	staff
Lab E010	6:30-8:20		Th	SL 2211	staff
Lect C	12:30-1:20	M	W	SCI 200	Savostin
Lab 201	8:30-10:20	M		SCI 111	Savostin
Lab 202	10:30-12:20	M		SCI 111	Savostin
Lect D	8:30-9:20	Tu	Th	ESL 215	Keating
Lab 401	10:30-12:20	Tu		ESL 116	Keating
Lab 402	1:30-3:20	Tu		ESL 116	Keating

**312-3 Conservation of Natural Resources**

001	8:30-9:20	M	W	F	GC 0306	Marlow
002	9:30-10:20	M	W	F	GC 0306	Kazeck
003	2:30-3:20	M	W	F	GC 0306	Kircher
004	1:30-2:45	Tu	Th		GC 0306	Collier
E005	6:30-7:45	M	W		GC 1412	Kircher
401	12:30-1:20	M	W	F	ESL 105	Fogel

**331-3 Climate**

Lect A	11:30-12:20	M	W		GC 0306	Guffy
Lab 001	11:30-1:20			F	GC 0306	staff
Lect B	10:30-11:20	M	W		GC 0306	Guffy
Lab 002	10:30-12:20		Th		GC 0306	staff
Lect						
Lab E003	6:30-8:20	Tu	Th		GC 0306	Marlow

**356-3 Astronomy**

E001	8:30-9:45	Tu	Th		SL 0226	Rockman
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**363a-3 Philosophy of Science**

001	9:30-10:20	M	W	F	GC 0312	Livergood
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**363b-3 Philosophy of Science**

001	11:30-12:20	M	W	F	GC 0312	Barker
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## MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)

**101a-3 Survey of Western Tradition**

001	8:30-9:20	M	W	F	GC 1412	Lossau
002	12:30-1:20	M	W	F	GC 1410	Koepke
003	8:30-9:45	Tu	Th		GC 0306	Clements
201	8:30-9:20	M	W	F	ANA 104	Clements
401	11:30-12:20	M	W	F	ESL 215	Clements

**101b-3 Survey of Western Tradition**

001	10:30-11:20	M	W	F	GC 0304	Haas
002	1:30-2:20	M	W	F	GC 0304	Steckling
003	11:30-12:20	M	W	Th	GC 0304	Erickson
E004	6:30-7:45	Tu	Th		GC 1307	Pearson

**101c-3 Survey of Western Tradition**

001	9:30-10:20	M	W	F	GC 1402	Kimball
002	12:30-1:20	M	W	F	GC 1402	Haas
003	2:30-3:20	M	W	Th	GC 0304	Pearson
E004	6:30-7:45	M	W		GC 0304	Astour



Course No.—Hours Edw. Alton E. St. Louis	Descriptive Title Time	Days	Place	Instructor
201	9:30–10:45	Tu Th	ANA 104	Wurtz
E202	6:30–7:45	Tu Th	SCI 002	Wurtz
401	10:30–11:20	M W F	ESL 130	Martin
E402	6:30–7:45	M W	ESL 103	Martin
<b>201a–3 Culture, Society, and Behavior</b>				
001	3:30–4:45	Tu Th	GC 2405	Hayes
002	11:30–12:45	Tu Th	GC 0312	staff
201	9:30–10:45	Tu Th	ANA 108	Clendenen
E401	8:30–9:45	Tu Th	ESL 212	Hayes
<b>201b–3 Culture, Society, and Behavior</b>				
001	10:30–11:20	M W F	GC 0312	Grubb
201	2:30–3:45	Tu Th	ANA 108	O. Collins
401	11:30–12:45	Tu Th	ESL 215	Teer
<b>201c–3 Culture, Society, and Behavior</b>				
001	1:30–2:20	M W F	GC 1402	McLaughlin
201	2:30–3:45	Tu Th	ANA 104	staff
E401	5:30–6:45	M W	ESL 215	staff
<b>211a–3 Political Economy</b>				
001	8:30–9:20	M W F	GC 0312	Maconick
002	12:30–1:20	MTu Th	GC 0306	L. Drake
E003	5:30–8:20	W	GC 0412	staff
E202	5:30–8:20	M	ANA 108	Price
E402	5:30–8:20	Tu	ESL 105	staff
<b>211b–3 Political Economy</b>				
001	9:30–10:20	MTu Th	GC 0406	Ellsworth
002	11:30–12:20	MTu Th	GC 0309	Maier
201	11:30–12:20	MTu Th	SCI 103	Fredland
<b>211c–3 Political Economy</b>				
001	10:30–11:20	MTu Th	GC 0314	Feeney
002	12:30–1:20	MTu Th	GC 0314	Stahnke
201	10:30–11:20	MTu Th	SCI 102	Fredland
E401	5:30–8:20	Th	ESL 103	staff
<b>300a–3 History of the United States</b>				
001	9:30–10:20	M W F	GC 0411	Millett
002	12:30–1:20	M W F	GC 0411	Wilton
E003	8:30–9:45	M W	GC 0411	McCurry
<b>300b–3 History of the United States</b>				
001	11:30–12:20	M W F	GC 0411	Riddleberger
002	2:30–3:20	MTu Th	GC 0411	Branz
<b>300c–3 History of the United States</b>				
001	10:30–11:20	M W F	GC 0411	Rosenthal
002	1:30–2:20	M W F	GC 0411	Weiss
E003	6:30–7:45	Tu Th	GC 0411	Branz
<b>311–3 Economic Development of the United States</b>				
001	10:30–11:20	M W F	GC 3316	Livingston
E002	5:30–8:20	M	GC 3316	Price
003	1:30–2:20	M W F	GC 3316	staff
<b>312–3 Comparative Economic Systems</b>				
001	11:30–12:20	M W F	GC 3316	Hashimi
<b>331–3 American Educational Systems</b>				
001	10:30–11:45	M W	CB 0186	C. Lee
002	1:30–2:45	M W	GC 2412	Goodwin
003	1:30–2:45	M W	CB 0186	H. H. Smith
E004	6:30–7:45	Tu Th	SL 1210	Darnell
005	9:30–10:45	Tu Th	SL 3225	staff
<b>354–3 Industrial Economic Geography</b>				
E001	5:30–8:20	Tu	GC 1412	Koeppke
<b>359b–3 Society and State: Social and Political Theories</b>				
001	12:30–1:20	M WTh	GC 0309	Mace-Remmling

### MAN'S INSIGHTS AND APPRECIATIONS (GSC)

100-3 Music Understanding						
001	1:30-2:20	M	W	F	LB 0044	Pival
201	8:30-9:20	M	W	F	SCI 102	Oberlag
401	12:30-1:20	M	W	F	ESL 212	Tulloss
101-3 Art Appreciation						
001	9:30-10:20	M	W	F	LB 0044	Conger
002	10:30-11:20	M	W	F	LB 0044	Conger
E201	6:30-7:45	M	W		SCI 102	Freund
401	12:30-1:20	M	W	F	ESL 130	Kutzik
151-3 Introduction to Poetry						
001	8:30-9:20	Tu	ThF		GC 3409	staff
002	8:30-9:20	Tu	ThF		GC 3415	staff
003	9:30-10:20	Tu	ThF		GC 2409	staff

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
<b>151-3 Introduction to Poetry</b>					
004	9:30-10:20	Tu ThF	GC 3415	staff	
005	10:30-11:20	Tu ThF	GC 3409	staff	
006	10:30-11:20	Tu ThF	GC 3415	staff	
007	11:30-12:20	Tu ThF	GC 3409	staff	
008	11:30-12:20	Tu ThF	GC 2409	staff	
009	12:30-1:20	Tu ThF	GC 3409	staff	
010	12:30-1:20	Tu ThF	GC 3415	staff	
011	1:30-2:20	Tu ThF	GC 3409	staff	
E012	6:30-7:45	M W	GC 3415	staff	
E013	6:30-7:45	Tu Th	GC 3415	staff	
E014	8:30-9:45	M W	GC 3415	staff	
E015	8:30-9:45	Tu Th	GC 3415	staff	
016	1:30-2:20	Tu ThF	GC 0413	staff	
017	2:30-3:20	Tu ThF	GC 3313	staff	
018	2:30-3:20	Tu ThF	GC 2409	staff	
201	8:30-9:20	Tu ThF	HUM 107	staff	
202	9:30-10:20	Tu ThF	HUM 107	staff	
203	10:30-11:20	Tu ThF	HUM 107	staff	
204	11:30-12:20	Tu ThF	HUM 107	staff	
E206	6:30-7:45	M W	HUM 107	staff	
E207	8:30-9:45	Tu Th	HUM 107	staff	
402	9:30-10:20	Tu ThF	ESL 222	staff	
403	10:30-11:20	Tu ThF	ESL 222	staff	
404	11:30-12:20	Tu ThF	ESL 222	staff	
E406	6:30-7:45	M W	ESL 222	staff	
E407	8:30-9:45	Tu Th	ESL 222	staff	
<b>152-3 Logic</b>					
All Day Students enroll in lecture and one quiz section following listed lecture					
Lect A	8:30-9:20	Tu Th	GC 1410	Barker	
001	8:30-9:20	M	GC 3415	Barker	
002	9:30-10:20	M	GC 3415	Barker	
003	8:30-9:20		F	GC 0406	Barker
004	9:30-10:20		F	GC 0406	Barker
Lect B	11:30-12:20	Tu Th	GC 1410	Livergood	
005	11:30-12:20	M	GC 3409	Livergood	
006	12:30-1:20	M	GC 3409	Livergood	
007	11:30-12:20		F	GC 0309	Livergood
008	12:30-1:20		F	GC 0309	Livergood
Lect C	1:30-2:20	Tu Th	GC 1410	Glossop	
009	1:30-2:20	M	GC 3409	Glossop	
010	2:30-3:20	M	GC 3411	Glossop	
011	1:30-2:20		F	GC 1412	Glossop
012	2:30-3:20		F	GC 3409	Glossop
201	10:30-11:20	M W F	SCI 002	Van Nuis	
E202	6:30-7:45	M W	ANA 101	Morgan	
E203	6:30-7:45	Tu Th	ANA 101	Morgan	
401	1:30-2:20	M W F	ESL 103	Murdoch	
E402	6:30-7:45	Tu Th	ESL 220	Van Nuis	
E403	8:30-9:45	M W	ESL 220	Murdoch	
<b>200-3 Oral Interpretation of Literature</b>					
001	9:30-10:20	M W F	GC 3417	Usrey	
<b>203-3 Drama and Arts of the Theater</b>					
001	10:30-11:20	M W F	GC 3315	Van der Poll	
E201	6:30-7:45	Tu Th	ANA 108	Smith	
<b>251a-3 Literary and Philosophical Masterpieces</b>					
001	9:30-10:20	M W F	GC 0314	Emblom	
E201	6:30-7:45	Tu Th	SCI 102	staff	
E401	8:30-9:45	Tu Th	ESL 221	Van Nuis	
<b>251b-3 Literary and Philosophical Masterpieces</b>					
001	9:30-10:20	M W F	GC 1410	Marti	
E201	6:30-7:45	M W	ANA 104	staff	
E401	8:30-9:45	Tu Th	ESL 115	staff	
<b>251c-3 Literary and Philosophical Masterpieces</b>					
001	10:30-11:20	M W F	GC 1410	Corr	
002	1:30-2:20	M W F	GC 1410	Rodier	
E201	8:30-9:45	M W	ANA 104	staff	
E401	6:30-7:45	M W	ESL 130	Murdoch	
<b>335-3 Studies in Short Fiction</b>					
001	11:30-12:20	Tu ThF	GC 0307	staff	
002	2:30-3:20	Tu ThF	GC 0307	staff	
<b>342-3 Modern Art C</b>					
001	12:30-1:20	M W F	LB 0044	Richardson	
<b>354a-3 History of the Theater</b>					
001	11:30-12:20	M W F	GC 2405	Kluth	

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
<b>354b-3</b>	<b>History of the Theater</b>				
001	12:30-1:20	M W F	GC 2405	Archer	
<b>357c-3</b>	<b>Music History and Literature</b>				
001	2:30-3:20	M W F	GC 3404	Warren	
<b>360b-3</b>	<b>Arts and Ideals in Famous Cities</b>				
001	2:30-3:20	M W F	GC 1412	Marti	
<b>363a-3</b>	<b>Philosophy of Science (Same as GSA 363a)</b>				
001	9:30-10:20	M W F	GC 0312	Livergood	
<b>363b-3</b>	<b>Philosophy of Science (Same as GSA 363b)</b>				
001	11:30-12:20	M W F	GC 0312	Barker	

## ORGANIZATION AND COMMUNICATION OF IDEAS (GSD)

101a-3		English Composition					
	001	8:30-9:20	MTu	ThF	GC 0307	staff	
	002	9:30-10:20	MTu	ThF	GC 0307	staff	
	003	1:30-2:20	MTu	ThF	GC 0406	staff	
	004	2:30-3:20	MTu	ThF	GC 0406	staff	
	E005	6:30-8:20	M	W	GC 0307	staff	
	006	10:30-11:20	MTu	ThF	GC 2409	staff	
	007	12:30-1:20	MTu	ThF	GC 2304	staff	
	202	10:30-11:20	MTu	ThF	ANA 110	staff	
	E203	6:30-8:20	Tu	Th	HUM 107	staff	
	401	11:30-12:20	MTu	ThF	ESL 221	staff	
	E403	6:30-8:20	Tu	Th	ESL 222	staff	
101b-3		English Composition					
	001	9:30-10:20	MTu	ThF	GC 0309	staff	
	002	1:30-2:20	MTu	ThF	GC 0412	staff	
	003	2:30-3:20	MTu	ThF	GC 0412	staff	
	004	3:30-4:20	MTu	ThF	GC 0309	staff	
	E005	6:30-8:20	M	W	GC 0309	staff	
	006	1:30-2:20	MTu	ThF	GC 2410	staff	
	007	3:30-4:20	MTu	ThF	GC 2410	staff	
	201	9:30-10:20	MTu	ThF	SCI 103	staff	
	E203	8:30-10:20	Tu	Th	ANA 110	staff	
	402	12:30-1:20	MTu	ThF	ESL 224	staff	
	E403	8:30-10:20	M	W	ESL 222	staff	
103-3		Oral Communication of Ideas					
	001	8:30-9:20	M	W	F	GC 3421	Robinson
	002	8:30-9:20	M	W	F	GC 3422	Archer
	003	8:30-9:20	M	W	F	GC 3417	Fix
	004	9:30-10:20	M	W		GC 2409	Robinson
					F	GC 3316	Robinson
	005	9:30-10:20	M	W	F	GC 2410	Fix
	006	9:30-10:20	M	W	F	GC 2412	Archer
	007	10:30-11:20	M	W	F	GC 3417	Robinson
	008	10:30-11:20	M	W		GC 3409	Lyle
					F	GC 3422	Lyle
	009	10:30-11:20	M	W		GC 3415	Fix
					F	GC 3421	Fix
	010	11:30-12:20	M	W		GC 2409	Lyle
					F	GC 3422	Lyle
	011	11:30-12:20	M	W		GC 0307	Usrey
					F	GC 0304	Usrey
	012	11:30-12:45	Tu	Th		GC 2306	Van der Poll
	013	12:30-1:20	M	W	F	GC 3421	Lyle
	014	12:30-1:45	Tu	Th		GC 3417	Kluth
	015	12:30-1:45	Tu	Th		GC 3316	Fix
	016	1:30-2:20	M	W	F	GC 3421	Kluth
	017	1:30-2:20	M	W	F	GC 0306	Vilhauer
	018	2:30-3:45	Tu	Th		GC 3315	Van der Poll
	E019	5:30-6:45	Tu	Th		GC 2410	Usrey
	E020	7:30-8:45	Tu	Th		GC 2410	Usrey
	201	9:30-10:45	Tu	Th		ANA 111	Smith
	202	9:30-10:20	M	W	F	ANA 111	Smith
	203	11:30-12:20	M	W	F	ANA 111	Smith
	E204	6:30-7:45	M	W		ANA 111	Smith
	401	9:30-10:20	M	W	F	ESL 106	Hawkins
	402	10:30-11:20	M	W	F	ESL 106	Hawkins
	403	9:30-10:45	Tu	Th		ESL 106	Hawkins
106-0		Intermediate Algebra					
	001	1:30-2:20	MTu	ThF	SL 1224	Sommer	
	E401	6:30-8:20	M	W	ESL 104	staff	
112b-3		Introduction to Mathematics					
	001	2:30-3:20	M	W	F	SL 1224	Verderber



Course No.—Hours	Descriptive Title	Time	Days		Place	Instructor	
Edw. Alton E. St. Louis							
<b>112b-3</b>	<b>Introduction to Mathematics</b>						
002		1:30-2:20	M	W	F	SL 1210	Phillips
003		2:30-3:20	M	W	F	SL 1210	Phillips
201		1:30-2:20	M	W	F	ANA 104	Gwillim
E401		8:30-9:45	M	W		ESL 112	staff
<b>112c-3</b>	<b>Introduction to Mathematics</b>						
001		11:30-12:20	M	W	F	GC 1402	Lindstrum
E002		6:30-7:45	M	W		SL 1224	Marlin
201		11:30-12:20	M	W	F	ANA 104	Phillips
401		11:30-12:20	M	W	F	ESL 130	Rogers
<b>114a-3</b>	<b>College Algebra</b>						
001		8:30-9:20	M	W	F	SL 1224	Sayre
002		9:30-10:20	M	W	F	SL 1224	Sayre
201		8:30-9:20	M	W	F	SCI 002	Bardon
401		9:30-10:20	M	W	F	ESL 112	Verderber
<b>114b-3</b>	<b>College Algebra</b>						
001		12:30-1:20	M	W	F	SL 1224	Sommer
E002		6:30-7:45	M	W		SL 1225	Poynor
003		12:30-1:20	M	W	F	SL 1210	Holden
201		9:30-10:20	M	W	F	SCI 102	Bardon
E401		6:30-7:45		Tu	Th	ESL 221	staff
<b>114c-3</b>	<b>Trigonometry</b>						
001		10:30-11:20	M	W	F	SL 1224	Corcoran
002		1:30-2:20	M	W	F	SL 1225	Corcoran
E201		6:30-7:45	M	W		SCI 103	Gwillim
401		12:30-1:20	M	W	F	ESL 220	Rogers
<b>114d-3</b>	<b>Statistics</b>						
001		8:30-9:20	M	W	F	SL 1225	Luan
002		9:30-10:20	M	W	F	SL 1225	Goering
003		2:30-3:20	M	W	F	SL 1225	Poynor
E004		5:30-8:20	M			GC 0412	staff
005		10:30-11:20	M	W	F	GC 2410	staff
<b>123b-3</b>	<b>Elementary French</b>						
001		12:30-1:20	MTu	Th		GC 1306	staff
<b>123c-3</b>	<b>Elementary French</b>						
001		9:30-10:20	MTu	Th		GC 1306	staff
002		1:30-2:20	MTu	Th		GC 1306	staff
E201		6:30-7:45		Tu	Th	ANA 110	staff
<b>126b-3</b>	<b>Elementary German</b>						
001		1:30-2:20	MTu	Th		GC 0307	staff
<b>126c-3</b>	<b>Elementary German</b>						
001		11:30-12:20	MTu	Th		GC 1306	staff
002		12:30-1:20	MTu	Th		GC 1307	staff
003		3:30-4:20	MTu	Th		GC 1306	staff
E201		6:30-7:45	M	W		ANA 110	staff
E401		6:30-7:45		Tu	Th	ESL 104	staff
<b>140b-3</b>	<b>Elementary Spanish</b>						
001		2:30-3:20	MTu	Th		GC 1306	staff
<b>140c-3</b>	<b>Elementary Spanish</b>						
001		10:30-11:20	MTu	Th		GC 1306	staff
002		3:30-4:20	MTu	Th		GC 1307	staff
E201		6:30-7:45	M	W		SCI 003	staff
<b>144c-3</b>	<b>Elementary Italian</b>						
E201		6:30-7:45		Tu	Th	SCI 003	staff

## HEALTH EDUCATION AND PHYSICAL EDUCATION (GSE)

<b>101d-1 Life Saving (Men)</b>				
Pool rental fee \$6, payable first class meeting.				
201	3:30-4:20	Tu Th	Gym	Moehn
<b>102-1 Physical Fitness (Men)</b>				
001	8:30-9:20	M W	GC 3409	Luedke
002	9:30-10:20	M W		Luedke
201	9:30-10:20	Tu Th	Gym	Moehn
401	9:30-10:20	Tu Th	Gym	Brick
<b>111d-1 Life Saving (Women)</b>				
Pool rental fee \$6, payable first class meeting.				
201	3:30-4:20	Tu Th	Gym	Moehn
<b>112-1 Basic Body Movement (Women)</b>				
001	2:30-3:20	M W		Bowman
<b>116a-1 Beginning Swimming</b>				
Pool rental fee \$6, payable first class meeting.				
201	1:30-2:20	Tu Th	Gym	Moehn
<b>116b-1 Intermediate Swimming</b>				
Pool rental fee \$6, payable first class meeting.				
201	2:30-3:20	Tu Th	Gym	Moehn

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
117a-1	Square Dance				
001		9:30-10:20	M W		S. Carpenter
117b-1	Folk Dance				
001		10:30-11:20	M W		S. Carpenter
117c-1	Social Dance				
001		1:30-2:20	M W		S. Carpenter
117d-1	Beginning Contemporary Dance				
001		3:30-4:20	M W		S. Carpenter
117e-1	Intermediate Contemporary Dance				
001		3:30-4:20	M W		S. Carpenter
118a-1	Archery				
001		1:30-2:20	M W		Bowman
118d-1	Bowling				
001		9:30-10:20	M W		Showers
002		10:30-11:20	M W		Showers
003		9:30-10:20	Tu Th		Showers
004		10:30-11:20	Tu Th		Showers
118e-1	Golf				
001		10:30-11:20	M W		Brick
002		11:30-12:20	M W		Brick
401		10:30-11:20	Tu Th		Brick
118h-1	Tennis				
201		1:30-2:20	M W	Gym	Brick
202		2:30-3:20	M W	Gym	Brick
118w-1	Track and Field				
001		1:30-2:20	M W		staff
201-3	Healthful Living				
001		2:30-3:20	M W F	GC 1402	Luedke
002		11:30-12:20	M W F	GC 1410	Luedke
201		11:30-12:20	Tu ThF	ANA 101	Moehn
401		11:30-12:20	Tu ThF	ESL 104	Brick

## ACCOUNTING (ACCT)

251a-4	Elementary Accounting I				
001		9:30-10:20	MTu ThF	GC 3303	Nourallah
E002		8:30-10:20	Tu Th	GC 3303	Milles
201		9:30-10:20	MTu ThF	ANA 100	Dressel
E202		8:30-10:20	Tu Th	ANA 100	Dressel
E402		8:30-10:20	M W	ESL 224	Riggs
251b-4	Elementary Accounting II				
001		12:30-1:20	MTu ThF	GC 3303	Donnalley
E002		8:30-10:20	M W	GC 3303	Donnalley
E201		6:30-8:20	M W	ANA 100	Mains
E401		6:30-8:20	Tu Th	ESL 224	Fink
251c-4	Elementary Accounting III				
001		10:30-11:20	MTu ThF	GC 3303	Bedel
002		11:30-12:20	MTu ThF	GC 3303	Bedel
201		8:30-9:20	MTu ThF	ANA 100	Mains
E203		6:30-8:20	Tu Th	ANA 100	Dressel
401		11:30-12:20	MTu ThF	ESL 224	Fink
E402		6:30-8:20	M W	ESL 224	Riggs
331-4	Tax Accounting				
E001		6:30-8:20	M W	GC 3303	Donnalley
341-4	Cost Accounting				
001		8:30-9:20	MTu ThF	GC 3303	Nourallah
355-4	Governmental Accounting				
001		10:30-11:20	MTu ThF	GC 2304	Small
453a-4	Advanced Accounting I				
001		9:30-10:20	MTu ThF	GC 2304	Nissing
E002		6:30-8:20	Tu Th	GC 3303	Milles
456-4	Auditing				
001		11:30-12:20	MTu ThF	GC 2304	Nissing

## AEROSPACE STUDIES (AS)

353-3	Military Management				
001		9:30-10:20	M W F	SL 1210	Horvath
002		12:30-1:20	M W F	GC 3422	Horvath

## ANTHROPOLOGY (ANTH)

409-4	Anthropology and Modern Life				
001		11:30-12:20	MTuWTh	SL 3222	Voget
430-4	Archeology of North America				
001		2:30-4:20	M W	GC 3422	J. Collins Voget

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					

### APPLIED SCIENCE (APS)

101b-3	Graphics				
001		10:30-12:20	M W F	SL 1216	Bishop
101c-3	Graphics				
001		8:30-10:20	M W F	SL 1216	Bishop
523-3	Digital Simulation Techniques				
E001		4:30-5:45	M W F	CB 0186	Rutledge
524b-3	Linear and Non-Linear Programming				
E001		4:30-5:45	M W	SL 2224	Hughs
531b-4	Operation Analysis and Synthesis				
E001		6:30-8:20	M W	SL 3222	Brown

### ART (ART)

100a-5	Basic Studio				
001		1:30-4:20	M W F	SL 0222	Marcell
100b-5	Basic Studio				
001		8:30-10:20	MTuWThF	SL 0222	Cannon
100c-5	Basic Studio				
001		8:30-10:20	MTuWThF	SL 0225	Kutzik
002		10:30-12:20	MTuWThF	SL 0225	Huntley
E003		6:30-10:00	Tu Th	SL 0225	Smith
201b-4	Drawing and Composition				
001		1:30-3:20	MTuWThF	SL 0225	Smith
225c-3	History of World Art				
001		12:30-1:20	M W F	SL 1105	Conger
300a-4	Art Education				
001		9:30-11:20	M W F	SL 0209	Altvater
002		2:30-5:20	Tu Th	SL 0209	Altvater
300b-4	Art Education				
001		12:30-2:20	M W F	SL 0209	Buddemeyer
305c-4	Advanced Ceramics				
E001		6:30-10:00	M W	Wagner	Cannon
310c-4	Painting				
001		10:30-12:20	MTuWTh	SL 0218	Freund
312b-4	Advertising and Graphic Design II				
E001		6:30-10:00	Tu Th	SL 0222	Kemper
325a-4	Studio				
001		Arranged			Buddemeyer
325b-4	Studio				
001		Arranged			Buddemeyer
325c-4	Studio				
001		Arranged			Buddemeyer
358c-4	Prints				
001		1:30-3:20	MTuW F	SL 0210	Richardson
393c-4	Sculpture				
001		8:30-10:20	MTuWTh	Wagner	Marcell
401-4	Research in Painting				
001		Arranged		SL 0218	Huntley
405-4	Studio in Sculpture				
001		8:30-10:20	MTuWTh	Wagner	Marcell
410-4	Research in Prints				
001		1:30-3:20	MTuW F	SL 0210	Richardson
420-4	Research in Pottery				
E001		6:30-10:00	M W	Wagner	Cannon
466-4	Studio in Art Education				
E001		4:30-7:20	M W	SL 0209	Buddemeyer
501-4	Seminar in Painting				
001		Arranged		SL 0218	Huntley
502-4	Seminar in Sculpture				
001		Arranged		Wagner	Marcell
511-4	Seminar in Prints				
001		Arranged		SL 0210	Richardson
520-4	Seminar in Pottery				
001		Arranged		Wagner	Cannon
560-4	Seminar in Art Education				
E001		6:30-9:30	W	Arranged	Altvater
566-4	Research in Art Education				
001		Arranged		Arranged	Altvater

### BOTANY (BOT)

311-5	General Bacteriology				
Lect A		2:30-3:20	M W F	SCI 201	Savostin
Lab 201		3:30-5:20	M W	SCI 110	Savostin



Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					

<b>507-3</b>	<b>BSCS High School Biology</b>				
E001	5:30-8:20	Tu		SL 3218	Kumler N. Parker

**BUSINESS ADMINISTRATION (BA)**

<b>530-4</b>	<b>Financial Management</b>				
E001	6:30-8:20	Tu Th		SL 0226	staff
<b>542-4</b>	<b>History and Theory of Management</b>				
E001	8:30-10:20	Tu Th		GC 0314	staff

**BUSINESS EDUCATION (BS ED)**

<b>201c-3</b>	<b>Typewriting</b>				
001	12:30-1:20	MTu ThF		GC 0409	staff
E401	8:30-10:20	Tu Th		ESL 223	staff
<b>221c-4</b>	<b>Shorthand &amp; Transcription</b>				
001	11:30-12:20	MTu ThF		GC 0409	staff
E401	6:30-8:20	Tu Th		ESL 223	staff
<b>304-3</b>	<b>Advanced Typewriting</b>				
E001	8:30-10:20	M W		GC 0409	staff
<b>324b-4</b>	<b>Advanced Shorthand &amp; Transcription</b>				
E001	6:30-8:20	M W		GC 0409	staff
<b>327-4</b>	<b>Office Theories &amp; Practices</b>				
E001	6:30-8:20	Tu Th		GC 0409	staff
<b>341-4</b>	<b>Calculating Machines</b>				
001	10:30-11:20	MTu ThF		GC 0408	staff
<b>351-4</b>	<b>Foundations of Business Education</b>				
001	10:30-11:20	MTu ThF		GC 0409	staff
<b>405-4</b>	<b>Teaching General (Basic) Business Subjects</b>				
E001	6:30-8:20	Tu Th		GC 0408	staff
<b>407-4</b>	<b>Office Management</b>				
00P	9:30-10:20	MTu ThF		GC 0408	staff
<b>427-4</b>	<b>Records Administration</b>				
E001	6:30-8:20	M W		GC 0408	staff

**CHEMISTRY (CHEM)**

<b>110-4</b>	<b>General and Inorganic Chemistry</b>				
Lect A	11:30-12:20	M W F		ESL 105	staff
Lab 401	8:30-11:20	W		ESL 125	staff
<b>111b-5</b>	<b>Chemical Principles and Inorganic Chemistry</b>				
Lect A	6:30-7:45	M W		ESL 212	staff
Lab E401	7:55-8:45	M		ESL 212	staff
	7:55-10:20	W		ESL 125	staff
<b>111c-5</b>	<b>Chemical Principles and Inorganic Chemistry</b>				
Lect A	9:30-10:20	M W F		SL 1105	Phillips
Lab 001	8:30-11:20	Tu Th		SL 2215	staff
Lab 002	11:30-2:20	Tu Th		SL 2215	Rands
Lab 003	11:30-2:20	M W		SL 2215	Phillips
<b>235-5</b>	<b>General Quantitative Analysis</b>				
Lect A	12:30-1:20	M W F		SL 2224	staff
Lab 001	11:30-2:20	Tu Th		SL 2217	staff
<b>240-4</b>	<b>Organic Chemistry</b>				
Lect A	8:30-9:20	M W F		SL 3225	staff
Lab 001	9:30-12:20	M		SL 2217	staff
<b>305b-5</b>	<b>Organic Chemistry, Preprofessional</b>				
Lect A	11:30-12:20	M W F		SL 3225	Jason
Lab 001	11:30-2:20	Tu Th		SL 2216	Jason
<b>311-3</b>	<b>Inorganic Chemistry</b>				
001	1:30-2:20	M W F		SL 2217	staff
<b>341c-5</b>	<b>Organic Chemistry</b>				
Lect A	6:30-7:45	M W		SL 1105	Probst
Lab E001	7:30-10:20	M W		SL 2216	Probst
Lab 002	2:30-5:20	M W		SL 2216	Probst
<b>375-1</b>	<b>Chemistry Seminar</b>				
E001	4:30-5:20	M		SL 3222	staff
<b>432a-4</b>	<b>Instrumental Analytical Measurements</b>				
Lect A	4:30-5:20	Tu Th		SL 3222	Parrill
Lab 001	Arranged			SL 2217	Parrill
<b>461c-4</b>	<b>Physical Chemistry</b>				
Lect A	11:30-12:20	M W F		SL 1210	Rands
Lab 001	8:30-11:20	Tu		SL 2217	Rands
Lab 002	8:30-11:20	Th		SL 2217	Rands
<b>541-3</b>	<b>Advanced Organic Chemistry</b>				
E001	6:30-7:45	Tu Th		SL 2224	Jason

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					

## COMPARATIVE LITERATURE (CLT)

310c-4	Prose				
001		Arranged			

## ECONOMICS (ECON)

210-5	Principles of Economics				
001		11:30-12:20	MTuWThF	GC 3313	Maconick
002		9:30-10:20	MTuWThF	GC 3315	C. Drake
E003		5:30-8:20	Tu Th	GC 3315	staff
201		9:30-10:20	MTuWThF	SCI 200	Ballou
401		12:30-1:20	MTuWThF	ESL 104	Euring
308-4	Economic & Business Statistics I				
E001		6:30-8:20	M W	GC 0314	Luan
310-4	Labor Problems				
E001		8:30-10:20	Tu Th	GC 1414	C. Drake
315-4	Money & Banking I				
001		9:30-10:20	MTu ThF	GC 3302	Luan
E002		6:30-8:20	Tu Th	GC 0406	Livingston
441-4	Intermediate Macro Theory				
E001		8:30-10:20	M W	GC 0309	Schwier
450-3	History of Economic Thought				
001		1:30-2:45	Tu Th	GC 3421	Livingston
470-3	Business Cycles				
001		10:30-11:20	MTu Th	GC 1307	L. Drake

## EDUCATIONAL ADMINISTRATION (ED AD)

355-4	Philosophy of Education				
001		10:30-12:20	M W	LB 0042	Hofmann
002		10:30-12:20	M W	GC 3422	Curry
E003		4:30-6:20	Tu Th	GC 0307	Curry
E004		6:30-8:20	Tu Th	GC 3316	Hofmann
005		9:30-11:20	Tu Th	GC 0411	C. Lee
006		1:30-3:20	Tu Th	GC 2306	staff
500-4	Research Methods				
E001		5:30-8:20	Tu	GC 2409	Hileman
E002		5:30-8:20	Tu	GC 3417	Jordan
003		9:00-11:40		S GC 3422	Brubaker
E004		5:30-8:20	Th	GC 2409	
					H. F. A. Smith
E005		5:30-8:20	M	GC 2410	staff
503-4	Seminar in Philosophy of Education				
E001		5:30-8:20	M	GC 3305	Villemain
511c-4	Internship Practicum				
001	Arranged				Andree
520-4	Illinois School Law				
E001		5:30-8:20	W	GC 3313	H. H. Smith
524-4	School Administration				
E001		5:30-8:20	Th	GC 1306	Ackerlund
533-4	School Buildings				
E001		5:30-8:20	W	SL 1210	Wilkins
534a-4	School Finance				
E001		5:30-8:20	M	SL 1210	Wilkins
556-4	Seminar in Educational Supervision				
E001		5:30-8:20	Th	GC 0409	Boss
560-4	Curriculum				
E001		5:30-8:20	W	CB 0194	staff

## EDUCATION ELEMENTARY (EDEL)

203-3	Understanding the Elementary School Child				
201		1:30-4:20	W	ANA 101	Steinbrook
401		1:30-4:20	Th	ESL 103	Steinbrook
314-4	Elementary School Methods				
001		4:30-6:20	Tu Th	GC 0306	Swerdlin
002		1:30-3:20	M W	GC 1414	R. Carpenter
316-4	Kindergarten-Primary Methods and Curriculum				
001		4:30-6:20	M W	GC 1414	Starr
337-4	Reading in the Elementary School				
001		4:30-6:20	M W	GC 3315	Richardson
002		2:30-4:20	Tu Th	GC 1412	Richardson
350d-8 to 12	Kindergarten-Primary Student Teaching				
001	Arranged				Staff

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
50e-4 to 8	Advanced Kindergarten-Primary Student Teaching .....				
001	Arranged				Staff
51d-8 to 16	Elementary Student Teaching .....				
001	Arranged				Staff
51e-4 to 8	Advanced Elementary Student Teaching .....				
001	Arranged				Staff
413-4	Children's Literature .....				
E001	5:30-8:20	Tu		GC 0312	Darnell
415-4	Improvement of Instruction in Arithmetic in the Elementary School .....				
E001	5:30-8:20	Tu		GC 3313	staff
42-4	Materials and Methods in Elementary School Science .....				
E001	5:30-8:20	Th		GC 0304	staff
521c-4	Diagnosis and Correction of Reading Disabilities .....				
001	9:00-11:40	S		GC 0307	
42-4	Language Arts in the Elementary School .....				
001	5:30-8:20	M		GC 0312	staff
43-4	Teaching the Social Studies in the Elementary School .....				
E001	5:30-8:20	W		GC 2410	R. Carpenter
57-4	The Elementary Principalship .....				
001	9:00-11:40	S		GC 0309	Palmer
59-4	Workshop in Instructional Leadership in Elementary Education ..				
E001	5:30-8:20	W		GC 1402	Comer
61-4	The Elementary School Curriculum .....				
E001	5:30-8:20	M		GC 2405	
75a-4	Individual Research (Curriculum) .....				
001	Arranged				staff
75b-4	Individual Research (Supervision) .....				
001	Arranged				staff
75c-4	Individual Research (Language Arts) .....				
001	Arranged				staff
75d-4	Individual Research (Science) .....				
001	Arranged				staff
75e-4	Individual Research (Reading) .....				
001	Arranged				staff
75f-4	Individual Research (Social Studies) .....				
001	Arranged				staff
75g-4	Individual Research (Elementary Education) .....				
001	Arranged				staff
75h-4	Individual Research (Arithmetic) .....				
001	Arranged				staff
75j-4	Individual Research (Problems in Kindergarten-Primary) .....				
001	Arranged				staff
75k-4	Individual Research (Elementary Administration) .....				
001	Arranged				staff
96-4	Independent Investigation .....				
001	Arranged				staff

## EDUCATION SECONDARY (EDS)

515-4	High School Methods .....				
001	4:30-6:20	M	W	GC 0306	staff
002	2:30-4:20	M	W	GC 3315	Smyers
003	11:30-1:20	Tu	Th	GC 2410	Smyers
52d-8 to 12	Secondary Student Teaching .....				
001	through 026 Arranged				staff
001	Agriculture	014	Home Economics		
002	Art	015	Industrial Education		
003	Biology	016	Journalism		
004	Business	017	Mathematics		
005	Chemistry	018	Music		
006	Economics	019	Physical Education		
007	English	020	Physics		
008	Foreign Language	021	Sociology		
009	General Science	022	Social Studies		
010	Geography	023	Speech		
011	Government	024	Library Science		
012	Health Education	025	Psychology		
013	History	026	School Nursing		
508-4	Seminar: Trends in Selected Areas in Secondary Schools .....				
001	5:30-8:20	W		GC 0312	Bliss
521c-3	Diagnosis and Correction of Reading Disabilities .....				
001	9:00-11:40	S		GC 0406	Bear
562-4	The High School Curriculum .....				
001	9:00-11:40	S		GC 0412	staff
575a-4	Individual Research (Curriculum) .....				
001	Arranged			Arranged	staff



Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
575b-4	Individual Research (Supervision)			
001	Arranged		Arranged	staff
575c-4	Individual Research (Language Arts)			
001	Arranged		Arranged	staff
575d-4	Individual Research (Science)			
001	Arranged		Arranged	staff
575e-4	Individual Research (Readings)			
001	Arranged		Arranged	staff
575f-4	Individual Research (Social Studies)			
001	Arranged		Arranged	staff
575g-4	Individual Research (Secondary Education)			
001	Arranged		Arranged	staff
596-5	Independent Investigation			
001	Arranged		Arranged	staff

### EDUCATION SPECIAL (SPE)

351d-8	Elementary Student Teaching				
001	Arranged			Arranged	Bommarito
414-4	The Exceptional Child				
E001	5:30-8:20	W	F*	GC 0411	Shaffer
401	1:30-3:20	Tu	Th	ESL 222	staff
420a-4	Methods and Materials in the Education of the Emotionally Disturbed				
E001	5:30-8:20	W	F*	GC 1307	Bommarito
420b-4	Methods and Materials in the Education of the Educable Mentally Handicapped				
E001	5:30-8:20	M		GC 1307	staff
420c-4	Methods and Materials in the Education of the Gifted				
E001	5:30-8:20	Tu	F*	SL 1306	Shaffer
501-4	Special Research Problems				
001	Arranged			Arranged	staff
577-4	Practicum in Special Education				
001	Arranged			Arranged	Tucker
580a-4	Seminar: Exceptional Children (non-majors and advanced standing)				
E001	5:30-8:20	Th		GC 0314	Johnson
590a-4	Seminar: Mental Retardation				
E001	5:30-8:20	W		GC 3421	Tucker

\* First four Fridays only.

### ENGINEERING (ENGR)

260b-3	Analytical Mechanics				
001	11:30-12:20	M	W	F	CB 0194
311c-3	Engineering Materials				
001	10:30-11:20	M	W	F	GC 2306
Lab	Arranged				Jones

### ENGLISH (ENG)

300-4	Principles of English Grammar				
001	10:30-11:20	MTu	ThF	GC 0307	staff
302a-4	Survey of English Literature (to 1550)				
001	2:30-3:20	MTu	ThF	GC 0413	staff
302b-4	Survey of English Literature (1550-1750)				
001	8:30-9:20	MTu	ThF	GC 0309	staff
302c-4	Survey of English Literature (after 1750)				
001	9:30-10:20	MTu	ThF	GC 0413	staff
E003	8:30-10:20	M	W	GC 0307	staff
309a-4	Survey of American Literature (to 1865)				
001	12:30-1:20	MTu	ThF	GC 0413	staff
309b-4	Survey of American Literature (after 1865)				
001	11:30-12:20	MTu	ThF	GC 0314	staff
E002	6:30-8:20	Tu	Th	GC 0307	staff
365-4	Shakespeare				
001	10:30-11:20	MTu	ThF	GC 0413	staff
391-3	Usage in English				
001	12:30-1:20	MTu	ThF	GC 0307	staff
E002	8:30-10:20	Tu	Th	GC 0307	staff
403-4	History of the English Language				
001	9:30-10:20	MTu	ThF	GC 3421	Wood
412c-4	English Nondramatic Literature (18th Century)				
001	11:30-12:20	MTu	ThF	GC 3421	Slattery
447-4	American Humor and Satire				
E001	6:30-8:20	M	W	GC 2409	Austin

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
454b-4	English Fiction (Victorian)				
001	1:30-2:20	MTu ThF	GC 2409	Duncan	
460b-4	English Drama (Jacobean)				
E001	4:30-6:20	M W	GC 2409	Taylor	
460c-4	English Drama (Restoration and 18th Century)				
E001	6:30-8:20	M W	GC 0413	Graham	
485-4	Problems in the Teaching of English				
001	9:30-10:20	MTu ThF	GC 3422	Steinman	
492-4	Professional Writing II				
001	8:30-12:30	S	GC 2409	Havens	
500-2	Materials and Methods of Research in English				
E001	4:30-6:20	M	GC 1304	Kilby	
520-4	Studies in Romantic Literature				
001	11:30-12:20	MTu ThF	GC 1304	Duncan	
531-4	Studies in American Colonial Literature				
E001	6:30-8:20	Tu Th	GC 1304	Havens	
536-4	Studies in Later 19th Century American Writers				
E001	4:30-6:20	M W	SL 2227	Joost	
566-4	Studies in Shakespeare				
E001	6:30-8:20	M W	GC 1304	Taylor	

## FINANCE (FIN)

473-4	Business in Its Legal Environment				
E001	6:30-8:20	Tu Th	GC 2405	staff	

## FOREIGN LANGUAGE (FL)

## French (Fr)

23b-1	Elementary French Conversation				
001	12:30-1:20	F	GC 1306	staff	
23c-1	Elementary French Conversation				
001	9:30-10:20	F	GC 1306	staff	
002	1:30-2:20	F	GC 1306	staff	
E201	7:55-8:20	Tu Th	ANA 110	staff	
301c-3	Intermediate French				
001	11:30-12:20	M W F	GC 0413	staff	
002	11:30-12:20	M W F	GC 3415	staff	
320-2	Intermediate French Conversation				
001	11:30-12:20	Tu Th	GC 0413	staff	
301c-4	French Literature from the 18th Century to Contemporary Period				
001	2:30-4:20	M W	GC 0307	Pellegrino	
311c-3	French Culture and Civilization				
001	1:30-2:45	Tu Th	GC 3415	Pellegrino	

## German (Ger)

26b-1	Elementary German Conversation				
001	1:30-2:20	F	GC 0307	staff	
26c-1	Elementary German Conversation				
001	11:30-12:20	F	GC 1306	staff	
002	12:20-1:20	F	GC 1307	staff	
003	3:30-4:20	F	GC 1306	staff	
E201	7:55-8:20	M W	ANA 110	staff	
E401	7:55-8:20	Tu Th	ESL 104	staff	
301c-3	Intermediate German				
001	2:30-3:20	M W F	GC 0309	staff	
320-2	Intermediate German Conversation				
001	2:30-3:20	Tu Th	GC 0309	staff	
311c-3	German Culture and Civilization				
001	3:30-4:45	M W	GC 3421	staff	
316c-4	German Literature from Romanticism to Modern Times				
001	3:30-5:20	Tu Th	GC 3421	Spahn	

## Italian (Ital)

44c-1	Elementary Italian Conversation				
E201	7:55-8:20	Tu Th	SCI 003	staff	

## Spanish (Span)

40b-1	Elementary Spanish Conversation				
001	2:30-3:20	F	GC 1306	staff	
40c-1	Elementary Spanish Conversation				
001	10:30-11:20	F	GC 1306	staff	
002	3:30-4:20	F	GC 1307	staff	
E201	7:55-8:20	M W	SCI 003	staff	

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
201c-3	Intermediate Spanish				
001	1:30-2:20	M W F	GC 0309	staff	
220-2	Intermediate Spanish Conversation				
001	1:30-2:20	Tu Th	GC 0309	staff	
301c-4	Spanish Literature from Medieval period through Romanticism				
001	2:30-4:20	M W	GC 3409	Goode	
311c-3	Spanish Culture and Civilization				
001	2:30-3:45	Tu Th	GC 3409	Callanan	

### G E O G R A P H Y (GEOG)

306-4	Introduction to Cultural Geography				
001	1:30-2:20	MTuWTh	GC 1412	Baker	
416b-4	Cartography (Urban Mapping)				
E001	6:30-8:20	M W	SL 1216	Guffy	
424-4	Regional Problems in Conservation				
001	10:30-11:20	MTuW F	GC 1412	Kazeck	
426c-4	Photogrammetry				
001	Arranged			Arnott	
461a-4	Advanced Regional Geography: Anglo-America				
001	12:30-1:20	MTuWTh	GC 1412	Baker	
467b-3	Advanced Regional Geography: Latin-America				
E001	5:30-8:20	Th	GC 1412	Fogel	
471b-4	Regional Planning				
E001	6:30-8:20	M W	GC 0306	Lossau	
490c-1	Tutorial in Geography				
001	Arranged with consent of Dr. Kircher				
500-4	Geographic Techniques I (Statistics)				
001	8:30-12:20	S	SL 1215	Clements	
527-4	Seminar in Urban & Regional Planning				
E001	8:30-10:20	M W	GC 0306	Lossau	
	(permission of instructor)				
530-4	Independent Study In Geography				
	Arranged (consent of Dr. Kazeck)				
599-2 to 9	Thesis				
	Arranged			Kazeck	

### G O V E R N M E N T (GOVT)

210-4	American Government				
001	9:30-10:20	MTuWTh	GC 0412	Kerr	
002	11:30-12:20	MTuWTh	GC 0406	Stahnke	
003	2:30-3:20	MTuWTh	GC 0314	Dawson	
E004	6:30-8:20	Tu Th	GC 0309	Mace	
201	9:30-10:20	MTuWTh	SCI 003	Fredland	
401	11:30-12:20	MTuWTh	ESL 112	Dawson	
370-4	International Relations				
001	12:30-1:20	MTuWTh	GC 0412	Feeney	
415c-3	Political Behavior				
001	11:30-12:20	MTu Th	GC 0412	Ellsworth	
450c-4	Latin American Government				
001	10:30-11:20	MTuWTh	GC 0309	Maier	
451-3	International Politics of Europe				
E001	6:30-7:45	M W	GC 0406	Feeney	
470c-4	Field Problems in Urban and Regional Planning				
001	Arranged			Ranney	
470d-2	Urban Planning: Seminar Planning in a Free Society				
001	Arranged			Ranney	
473-3	Metropolitan Studies and Research				
001	2:30-3:20	MTu Th	GC 1307	Meranto	
484c-4	History of Political Theories				
001	10:30-11:20	MTuWTh	GC 0406	Mace	
495c-4	Constitutional Law				
001	11:30-12:20	MTuWTh	GC 2403	Kerr	
505-3	Seminar in Political Parties				
001	Arranged			Goodman	
512-3	Seminar in Public Administration				
001	Arranged			staff	

### G U I D A N C E (GUID)

305-4	Educational Psychology				
001	8:30-10:20	Tu Th	GC 0304	Ederle	
002	1:30-3:20	Tu Th	GC 2403	Shaffer	
E003	4:30-6:20	M W	GC 0307	staff	
420-4	Educational Statistics				



Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
001	4:30-6:20	M W	GC 0314	Brinkmann
422-4	Educational Measurements I			
001	1:30-3:20	Tu Th	GC 2304	McBride
002	9:30-11:20	M W	SL 0226	Eckert
E003	6:30-8:20	W F*	GC 2403	staff
501-2 to 8	Special Research Problems			
001	Arranged			staff
511-4	Educational Implications of Learning Theories			
E001	5:30-8:20	Th	GC 3422	staff
520a-4	Educational Statistics and Experimental Design			
E001	6:30-8:20	Tu Th	GC 3421	staff
522-4	Educational Measurements II			
5001	5:30-8:20	Tu	GC 0304	McCall
525-4	School Behavior Problems and Their Prevention			
E401	5:30-8:20	W	ESL 220	staff
526-4	Techniques in Individual Guidance			
E001	5:30-8:20	Tu	GC 3422	Rochester
535-4	Introduction to Individual Measurement			
E001	5:30-8:20	M	GC 0411	Harris
537-4	Counseling Theory and Practice I			
E001	5:30-8:20	M	GC 3421	Walsh
E401	5:30-8:20	W	ESL 221	staff
538-4	Counseling Theory and Practice II			
E001	5:30-8:20	M	GC 2403	Soper
401	9:00-11:30	S	ESL 221	Sonstegard
541-4	Occupational Information and Guidance			
E001	5:30-8:20	M	GC 3417	Van Horn
542-4	Basic Principles of Guidance			
001	1:30-3:20	M W	GC 2403	Soper
E002	5:30-8:20	Tu	GC 2304	Pancrazio
543-4	Guidance Through Groups			
E001	5:30-8:20	M	GC 2304	Pancrazio
545f-4	Seminar in Guidance: Pupil Adjustment			
E001	5:30-8:20	W	GC 2304	Sonstegard
545j-4	Seminar in Guidance: Organization and Administration			
E001	5:30-8:20	M	GC 3313	Ederle
562b-4	Adolescent Development in Education			
E001	5:30-8:20	Th	GC 2304	staff
575c-4	Practicum in Secondary Guidance			
001	Arranged			Soper

## HEALTH EDUCATION (HED)

300-3	Communicable Disease			
001	11:30-12:20	M W F	GC 2410	Klein
460-4	Methods and Materials in Secondary School Health Education			
001	2:30-3:20	MTu ThF	GC 3417	Klein

## HISTORY (HIST)

304a-3	History of the Ancient World: The Near East			
001	11:30-12:20	M W F	GC 3302	Astour
312-4	Central Europe in the 19th Century			
E001	5:30-7:20	Tu Th	GC 3302	Kimball
341c-3	History of Religion in Western Civilization			
001	1:30-2:20	M WTh	GC 3302	Pearson
415c-4	Early Modern Europe			
001	10:30-11:20	MTuWTh	GC 3302	Erickson
428-4	The Age of Jackson			
001	12:30-1:20	MTuWTh	GC 0304	Riddleberger
452-3	Historical Research and Thesis Writing			
E001	6:30-7:45	Tu Th	GC 3409	Riddleberger
454-3	Biography in American History			
001	8:30-9:20	M W F	GC 0412	McCurry
473-3	The Caribbean Area in the 20th Century			
001	12:30-1:20	M W F	GC 3302	Millett
500-4	History Seminar			
E001	6:30-8:20	Tu	GC 0314	Steckling
	(Additional hours to be arranged)			
515-3	Current U.S. History and Problems			
E001	6:30-7:45	M W	GC 3409	Weiss

## HUMANITIES (HUM)

303-3	Honors Seminar			
001	Arranged			

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			

## INSTRUCTIONAL MATERIALS (IM)

308-4	School Library Technical Processes				
E001	4:30-6:20	M W	GC 0304	Holzberlein	
406-4	Library Materials for Adolescents				
E001	6:30-9:20	M	LB 0042	Holzberlein	
417-4	Audio Visual Methods in Education				
E001	4:30-6:20	M W	LB 0042	Gilligan	
E002	5:30-8:20	Tu	LB 0042	Gilligan	
003	2:30-4:20	Tu Th	LB 0042	Gilligan	
004	9:00-11:40	S	LB 0042	staff	
420-4	School Library Activities and Practice				
E001	5:30-8:20	Th	LB 0042	Holzberlein	
445-4	Preparation of Teacher Made Audio Visual Materials				
E001	5:30-8:20	Th	GC 3305	Madison	
458-4	The Medium of the Motion Picture				
E001	5:30-8:20	W	GC 3305	Mitchell	
510-4	Mass Communications in Education				
E001	5:30-8:20	Tu	GC 3305	Engbretson	
547-4	School Film and Filmstrip Productions				
001	9:00-11:40	S	GC 0413	Madison	

## JOURNALISM (JRNL)

202-3	News Writing and Editing II				
001	Arranged			Hasse	
391-3	Feature Writing				
001	Arranged			Hasse	

## MANAGEMENT (MGT)

170-4	Introduction to Business Administration				
001	9:30-10:20	MTuWTh	GC 2405	Franke	
002	10:30-11:20	MTuWTh	GC 1414	Skjerseth	
003	1:30-2:20	MTu ThF	GC 0314	Potter	
201	8:30-9:20	MTu ThF	SCI 200	Potter	
E202	6:30-8:20	Tu Th	SCI 200	staff	
401	8:30-9:20	MTu ThF	ESL 115	Cutright	
E402	6:30-8:20	M W	ESL 106	Statler	
240-4	Introduction to Data Processing				
E001	8:30-10:20	M W	CB 0186	Miller	
002	12:30-2:20	M W	CB 0186	Miller	
241-4	Principles of Programming for Data Processing				
E001	6:30-8:20	M W	CB 1086	Vanicek	
271-4	Business Writing				
001	11:30-12:20	MTu ThF	GC 1412	Coffey	
E002	8:30-10:20	M W	GC 0406	Sobolik	
E201	6:30-8:20	Tu Th	ANA 111	staff	
401	8:30-9:20	MTu ThF	ESL 112	staff	
320-4	Corporation Finance				
001	1:30-2:20	MTu ThF	GC 3315	Cutright	
E002	6:30-8:20	M W	GC 3315	Cutright	
327-4	General Insurance				
E001	8:30-10:20	M W	GC 3315	staff	
340-4	Business Organization and Management				
001	9:30-10:20	MTuWTh	GC 1414	McKinney	
5002	6:30-8:20	M W	GC 1414	McKinney	
361-4	Business Report Writing				
001	12:30-1:20	MTu ThF	GC 0408	Houser	
E002	8:30-10:20	Tu Th	GC 0409	Palmer	
371-4	Business Law I				
001	9:30-10:20	MTuWTh	GC 3316	staff	
E002	8:30-10:20	Tu Th	GC 3316	staff	
372-4	Business Law II				
001	11:30-12:20	MTuWTh	GC 1414	staff	
E002	6:30-8:20	Tu Th	GC 1414	staff	
373-4	Business Law III				
001	8:30-9:20	MTuWTh	GC 0314	staff	
E002	6:30-8:20	M W	GC 1306	Blackledge	
380-4	Production Management				
001	10:30-11:20	MTuWTh	GC 0412	McKinney	
E002	8:30-10:20	Tu Th	GC 0412	Ingwerson	
382-4	Time and Motion Study				
001	12:30-1:20	MTuWTh	GC 0406	Skjerseth	

Course No.	Hours	Descriptive Title	Time	Days	Place	Instructor
Edw.	Alton	E.	St. Louis			
E002			8:30-10:20	M W	GC 0412	Skjerseth
385-4		Personnel Management				
001			2:30-3:20	MTu ThF	GC 3316	Franke
E002			8:30-10:20	M W	GC 3316	Scott
442-4		Management of Data Processing Systems				
E001			8:30-10:20	Tu Th	CB 0186	Miller
473-4		Business Enterprise and Public Policy				
001			11:30-12:20	MTu ThF	GC 3315	Scott
479-4		Problems in Business and Economics				
001			12:30-1:20	MTu ThF	GC 2409	Ingwerson
E002			6:30-8:20	Tu Th	GC 0412	Ingwersen
480-4		Seminar in Labor Law				
001			9:30-10:20	MTuWTh	GC 1304	Kori
481-4		Administrative Management				
001			2:30-4:20	Tu Th	GC 3422	Kori

## MARKETING (MKTG)

230-5		Principles of Marketing				
001			10:30-11:20	MTuWThF	GC 2403	Eckles
E002			6:00-8:20	Tu Th	GC 2403	Wang
E201			6:00-8:20	M W	SCI 200	staff
E401			6:00-8:20	Tu Th	ESL 115	De Bord
333-4		Advertising				
001			11:30-12:20	MTu ThF	GC 3417	Bosse
335-4		International Marketing				
E001			6:30-8:20	Tu Th	GC 0413	Kori
336-3		Purchasing				
E001			8:30-9:45	Tu Th	GC 0413	Wang
339-4		Industrial Marketing				
001			8:30-9:20	MTuWTh	GC 3313	Gwin
341-4		Transportation				
E001			8:30-10:20	M W	GC 0413	Bosse
438-4		Sales Management				
001			9:30-10:20	MTuWTh	GC 2306	Vincent
444-4		Marketing Management				
E001			6:30-8:20	M W	GC 3422	Eckles
490-4		Marketing Research and Analysis				
001			10:30-11:20	MTuWTh	GC 3421	

## MATHEMATICS (MATH)

111a-5		Elementary Analysis				
001			12:30-1:20	MTuWThF	SL 1225	Marlin
111b-5		Elementary Analysis				
001			10:30-11:20	MTuWThF	SL 1225	Srivastava
150a-4		Elementary Calculus and Analytic Geometry				
001			8:30-9:20	M WThF	SL 2224	Pendergrass
002			10:30-11:20	M WThF	SL 2224	Marlin
201			11:30-12:20	M WThF	ANA 110	Gwillim
150b-4		Elementary Calculus and Analytic Geometry				
001			11:30-12:20	M WThF	SL 1224	Srivastava
225-4		Programming for Digital Computers				
E001			6:30-8:20	Tu Th	CB 0186	Goering
252a-4		Calculus and Analytical Geometry				
E001			6:30-8:20	M W	SL 2224	staff
002			11:30-12:20	M WThF	SL 1225	Haimo
003			11:30-12:20	M WThF	GC 3404	Verderber
252b-4		Calculus and Analytical Geometry				
001			1:30-2:20	MTuWTh	SL 2224	Garder
300-4		The Real Number System				
001			9:30-10:20	MTu ThF	SL 2224	Hattemer
305b-3		Applied Mathematics for the Physical Sciences				
001			11:30-12:20	M W F	SL 2224	Hattemer
310-4		The Teaching of Elementary Mathematics				
001			2:30-3:20	MTu ThF	SL 0226	Fanning
E002			4:30-6:20	Tu Th	SL 0226	Fanning
320b-3		Fundamental Concepts of Algebra				
001			10:30-11:20	M W F	SL 3225	Haimo
E002			6:30-7:45	M W	SL 3225	Phillips
400-3		History of Mathematics				
001			1:30-2:20	M W F	SL 3225	Lindstrum
407-3		Introduction to Partial Differential Equations				
E001			8:30-9:45	Tu Th	SL 1224	Srivastava
413-4		Solid Analytic Geometry				
E001			4:30-6:20	Tu Th	SL 1224	staff



Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
382-6	Development of Leadership in Nursing (To be taken concurrently with Nursing 363c-8)				
401	*7:00-11:50	MTuW		Hospital	
	*12:30-3:30	MTuW		Hospital	
	10:30-11:50		ThF	ESL 212	Zich
384-2	Senior Seminar				
401	4:30-6:20		Th	ESL 220	staff
* First half quarter					

### PHILOSOPHY (PHIL)

200-4	Types of Philosophy: An Introduction				
002	10:30-11:20	MTuW	F	GC 3313	Marti
003	1:30-2:20	MTu	ThF	GC 3313	Emblom
E201	8:30-10:20	Tu	Th	ANA 111	Morgan
302-4	World Religions				
E001	8:30-10:20	Tu	Th	GC 0309	Rodier
324-4	Symbolic Logic				
001	3:30-4:20	MTu	ThF	GC 3415	Barker
360-4	Philosophy of Art				
001	1:30-2:20	MTu	ThF	GC 3422	Linden
381c-4	History of Philosophy				
001	10:30-12:20	Tu	Th	GC 3422	Emblom

### PHYSICAL EDUCATION (PE)

303-5	Kinesiology				
001	9:30-10:20	MTuWThF		GC 3305	Klein
349-2	Camping Education				
001	2:30-3:20	M	W		staff
350-4	Methods and Materials for Teaching Physical Education Activities in the Elementary School				
001	9:30-10:20	MTu	ThF	CB 0186	Bowman
201	2:30-3:20	Tu	ThF	ANA 101 & Gym	Moehn
365-2	Organization and Administration of Community Recreation				
001	2:30-3:20	M	W	GC 3313	Herrold
376-3	Emergency Care and Prevention of Athletic Injuries				
001	1:30-2:20	M	W	F GC 3417	Klein
402-4	Organization and Administration of Intramural and Extra Mural Activities				
001	3:30-4:20	M	W	F GC 3417	Showers
502-4	Foundations of Motor Skills				
E001	6:30-8:20	Tu	Th	GC 2412	Showers
504-4	Problems in Physical Education				
001	10:30-11:20	MTu	ThF	GC 1304	Herrold
525-1 to 6	Readings in Physical Education				
001	Arranged				

### PHYSICAL EDUCATION—WOMEN (PEW)

321-2 to 6	Methods of Teaching in Physical Education for Women				
001	11:30-12:20	M	W	GC 2412	Bowman
323-3	Officiating Techniques				
001	10:30-11:20	M	W		

### PHYSICS (PHYS)

206c-5	College Physics				
001	12:30-1:20	MTuW	F	SL 0226	Boedeker
211a-5	University Physics				
Lect A	1:30-2:20	M	W	F SL 0226	Zurheide
	1:30-3:20		Th	SL 1225	
Lab 001	8:30-10:20	Tu		SL 1217	staff
Lab 002	10:30-12:20	Tu		SL 1217	staff
211c-5	University Physics				
Lect A	10:30-11:20	M	W	F SL 1105	Walford
	10:30-12:20	Tu		SL 1105	
Lab 001	8:30-10:20		Th	SL 1218	staff
Lab 002	10:30-12:20		Th	SL 1218	staff
301b-4	Mechanics				
001	12:30-1:20	MTu	ThF	SL 3222	Hakeem
418-1 to 4	Modern Physics Laboratory				
001	Arranged			SL 0212	Sanders
450-3	Introduction to Solid State Physics				
E001	8:30-9:45	M	W	SL 1218	Walford

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
530c-3	Electromagnetic Theory				
E001		6:30-7:45	M W	SL 1218	Sanders
575-1	Graduate Seminar				
001		Arranged		SL 0226	staff

### PHYSIOLOGY (PHSL)

209-4	Principle of Physiology				
Lect A		3:30-4:20	M W F	SL 3225	R. Parker
Lab 001		2:30-4:20	Tu	SL 3218	R. Parker
Lab 002		3:30-5:20	Th	SL 3218	R. Parker
Lect B		9:30-10:20	M W F	SCI 201	Ratzlaff
201		10:30-12:20	W	SCI 111	Ratzlaff

### PSYCHOLOGY (PSYC)

211a-4	Principles and Methods of Psychology				
001		10:30-12:20	M W	SL 2212	Ferguson
211b-4	Principles and Methods of Psychology				
201		1:30-3:20	M W	SCI 103	Daugherty
301-4	Child Psychology				
001		11:30-1:20	Tu Th	GC 3302	Skinner
E002		5:30-7:20	M W	SL 0226	Staff
303-4	Adolescent Psychology				
001		2:30-4:20	M W	GC 3302	McMahon
305-4	Personality Dynamics				
001		11:30-1:20	M W	GC 2306	McCall
307-4	Social Psychology				
E001		6:30-8:20	M W	GC 2412	Engbretson
314-4	Experimental Psychology: Comparative and Physiological				
001		1:30-3:20	M W	SL 2212	Skinner
	Lab Arranged				
320-4	Industrial Psychology				
E001		4:30-6:20	Tu Th	GC 0309	Daugherty
404-4	Theories of Perception				
001		10:30-12:20	Tu Th	GC 3316	McLaughlin
431-4	Psychopathology				
001		1:30-3:20	Tu Th	GC 1414	Skinner
432-4	Mental Hygiene				
002		9:30-12:20	S	GC 0304	staff
461-4	Advanced Social Psychology				
001		1:30-3:20	M W	GC 2304	Engbretson
465-4	Group Dynamics and Individual Behavior				
001		8:30-10:20	Tu Th	GC 3417	McMahon
490-1 to 4	Independent Projects				
001		Arranged		Arranged	staff
531-4	Advanced Psychopathology				
E001		5:30-8:20	M	GC 2306	Taliana
537-4	Counseling and Psychotherapy				
E001		5:30-8:20	W	GC 2306	Taliana
541a-4	Psychodiagnostics I				
E001		5:30-8:20	Th	GC 3417	Harris
541b-4	Psychodiagnostics I				
E001		5:30-8:20	W	GC 3417	Rochester
571-4	Industrial Motivation and Morale				
E001		5:30-8:20	W	GC 3316	Daugherty
590-1 to 4	Readings in Psychology				
001		Arranged			staff
591-1 to 4	Research in Psychology				
001		Arranged			staff

### RADIO-TELEVISION (R-T)

359-4	Television Writing				
001		1:30-2:20	TuWThF	CB 0194	Lyle

### SOCIOLOGY (SOC)

301-4	Principles of Sociology				
001		2:30-4:20	Tu Th	GC 3303	staff
308-3	Statistics for Social Science				
001		3:30-4:45	M W	GC 0406	J. Altes
312-4	Sociological Research				
001		12:30-1:20	M WThF	GC 1414	Grubb
321-4	Socialization of the Individual				
E001		6:30-8:20	Tu Th	GC 1410	Campisi

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
351-4	Sociology of Religion				
001		2:30-3:20	MTuWTh	GC 3305	Remmling
406-4	Social Change				
001		12:30-1:20	MTuWTh	GC 3305	More
412-4	Sociological Research				
001		10:30-11:20	MTuWTh	GC 3305	staff
427-4	Personality and Social Adjustment				
001		1:30-2:20	MTuWTh	GC 3303	More
481-4	Processes in Social Work				
001		9:30-10:20	MTuWTh	GC 1412	Teer
482-4	Social Work in Selected Agencies				
001	Arranged				Irvine
484-4	Survey in Marriage Counseling				
E001		6:30-10:20	M	GC 1410	Taylor
538-4	Seminar in Industrial Sociology				
001		3:30-5:20	Tu Th	GC 2409	More

### S P E E C H (SPCH)

303-4	Business and Professional Speaking				
E001		6:30-8:20	Tu Th	GC 2306	Robinson
407a-4	History of American Public Address				
001		12:30-2:20	Tu Th	CB 2012	N. White
449-4	General Semantics				
E001		5:30-8:20*	Tu	CB 2012	St. Onge

\* Additional meetings to be arranged

### S P E E C H C O R R E C T I O N (SPC)

212-4	Articulatory Problems and Delayed Speech				
001		11:30-12:20	M WThF	CB 2012	O. White
405-4	Practicum in Speech and Hearing Therapy				
001	Arranged			GC 2009	St. Onge
419-4	Communication Problems of the Deaf and Hard of Hearing				
E001		5:30-8:20	M*	CB 2012	O. White

\* Additional meetings arranged

### T H E A T E R (THEA)

111b-3	Staging Techniques				
001		12:30-1:45	Tu Th	CB 2015	Vilhauer
207-4	Fundamentals of Theatrical Design				
001		2:30-3:20	TuWThF	SL 1216	Vilhauer
402b-4	Play Directing				
E001		5:30-8:10	W*	CB 2015	Archer

\* Additional meetings arranged

### U N I V E R S I T Y S T U D I E S (US)

101-15					
	401	8:30-4:20	MTuWThF	ESL 204	Frankel & staff
102-15					
	401	8:30-4:20	MTuWThF	ESL 204	Frankel & staff
103-15					
	401	8:30-4:20	MTuWThF	ESL 204	Frankel & staff

### Z O O L O G Y (ZOOL)

103-5	General Vertebrate Zoology				
Lect A		10:30-11:20	M W F	SL 1210	staff
Lab 001		8:30-10:20	Tu Th	SL 3210	staff
Lab 002		10:30-12:20	Tu Th	SL 3210	staff
303-4	General Ornithology				
Lect A		8:30-9:20	Tu Th	SL 3225	Broadbrooks
Lab 001		8:30-10:20	M W	SL 3210	Broadbrooks
309-5	Elementary Cytology				
Lect A		11:30-12:20	M W F	GC 3305	Frost
Lab 001		11:30-1:20	Tu Th	SL 3218	Frost
382c-1/2	Zoology Seminar for Seniors				
001		4:30-5:20	W	SL 3225	Ratzlaff
408-4	Herpetology				
Lect A		3:30-4:20	M W	SL 2224	Axtell
Lab 001		3:30-5:20	Tu Th	SL 3210	Axtell



Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
507-3	BSCS High School Biology				
E001		5:30-8:20	Tu	SL 3218	Kumler-N. Parker
509-2	Topics in Biology (Regulatory Biology)				
E001		6:30-8:20	Th	SL 3225	Wooldridge
511-4	Limnology				
Lect A		2:30-3:20	Tu Th	SL 3225	Thomerson
Lab 001		1:30-3:20	M W	SL 3210	Thomerson
582c-1/2	Graduate Zoology Seminar				
Lab 001		4:30-5:20	W	SL 3222	staff
599-2 to 9	Research and Thesis				
001		Arranged			staff

### VOCATIONAL-TECHNICAL INSTITUTE (VTI)

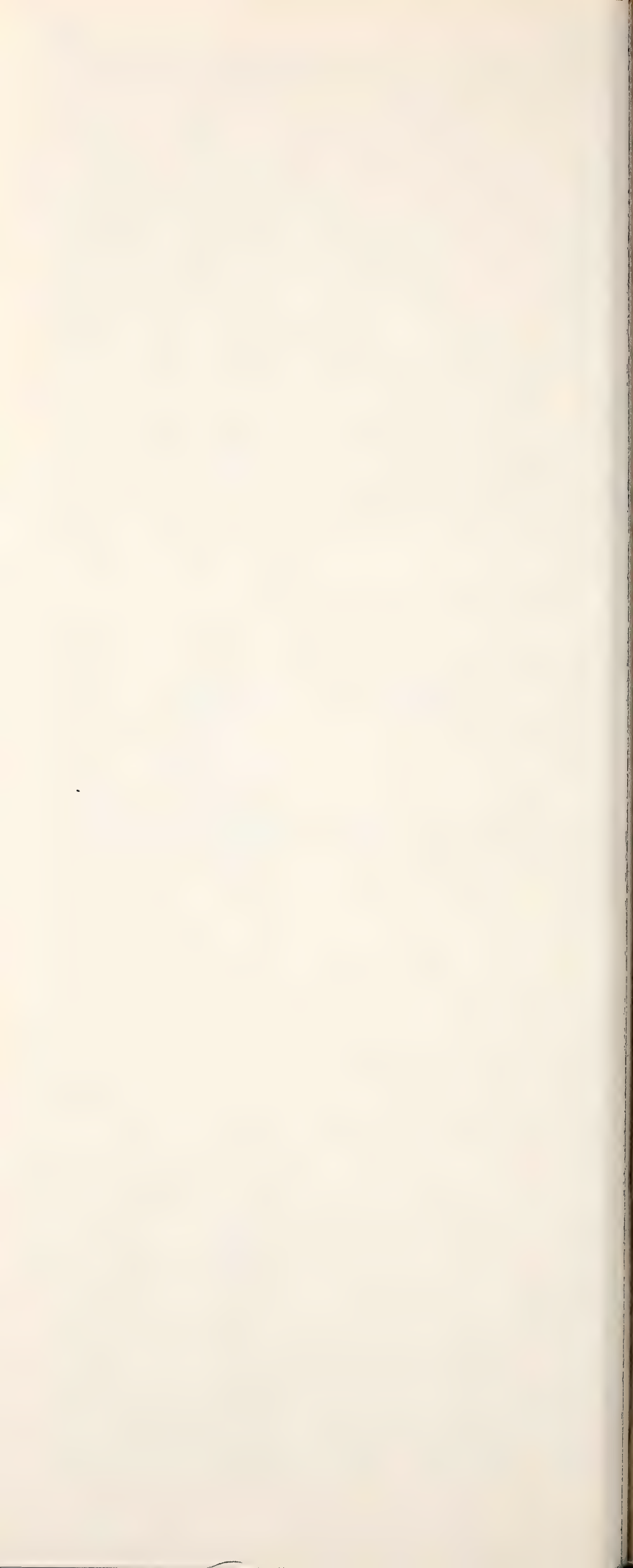
E100-5	Data Processing Mathematics				
E401		5:55-8:10	M W	ESL 115	staff
H130c-4	Stenograph Machines III				
E201		6:30-8:20	Tu Th	ANA 103	staff
5107-2	Filing and Duplicating				
E401		8:30-10:20	M	ESL 223	staff
5223-5	Secretarial Office Procedures				
201		3:30-4:20	MTuWThF	ANA 103	staff
E202		5:55-8:10	M W	ANA 103	staff

### TECHNICAL AND ADULT EDUCATION

#### † Non-Credit Courses

English Review					
E001		8:30-10:20	W	GC 0304	staff
E201		6:30-8:20	M	SCI 102	staff
E401		8:30-10:20	F	ESL 222	staff
Reading Improvement					
001		8:30-10:20	Th	GC 0306	staff
E201		4:30-6:20	Tu	HUM 107	staff
E401		6:30-8:20	F	ESL 222	staff

† Students enrolling in these courses must make separate arrangements with the Student Affairs Division at each campus on the dates announced by that office. Enrollment in these courses is not arranged through the Registrar's Office.



10

Class \_\_\_\_\_ Day ( ) \_\_\_\_\_ Evening ( ) \_\_\_\_\_ Number of hours student works \_\_\_\_\_

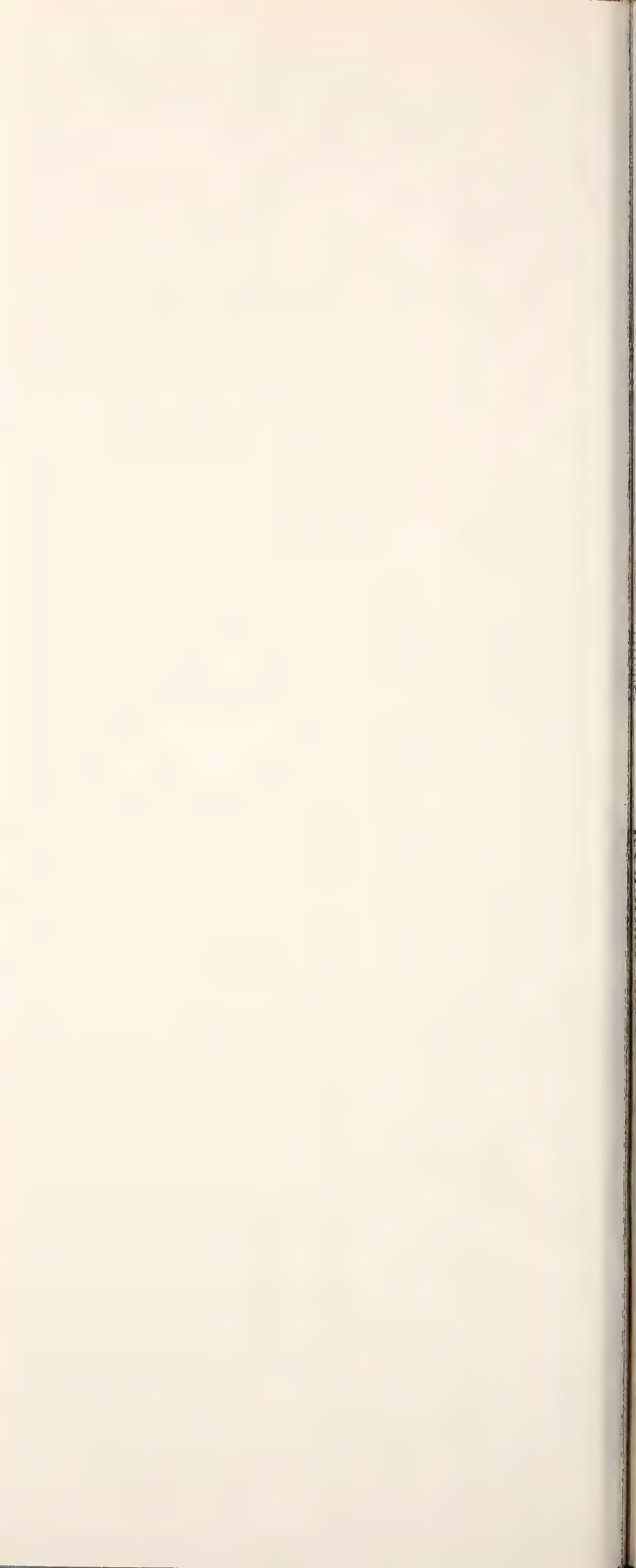
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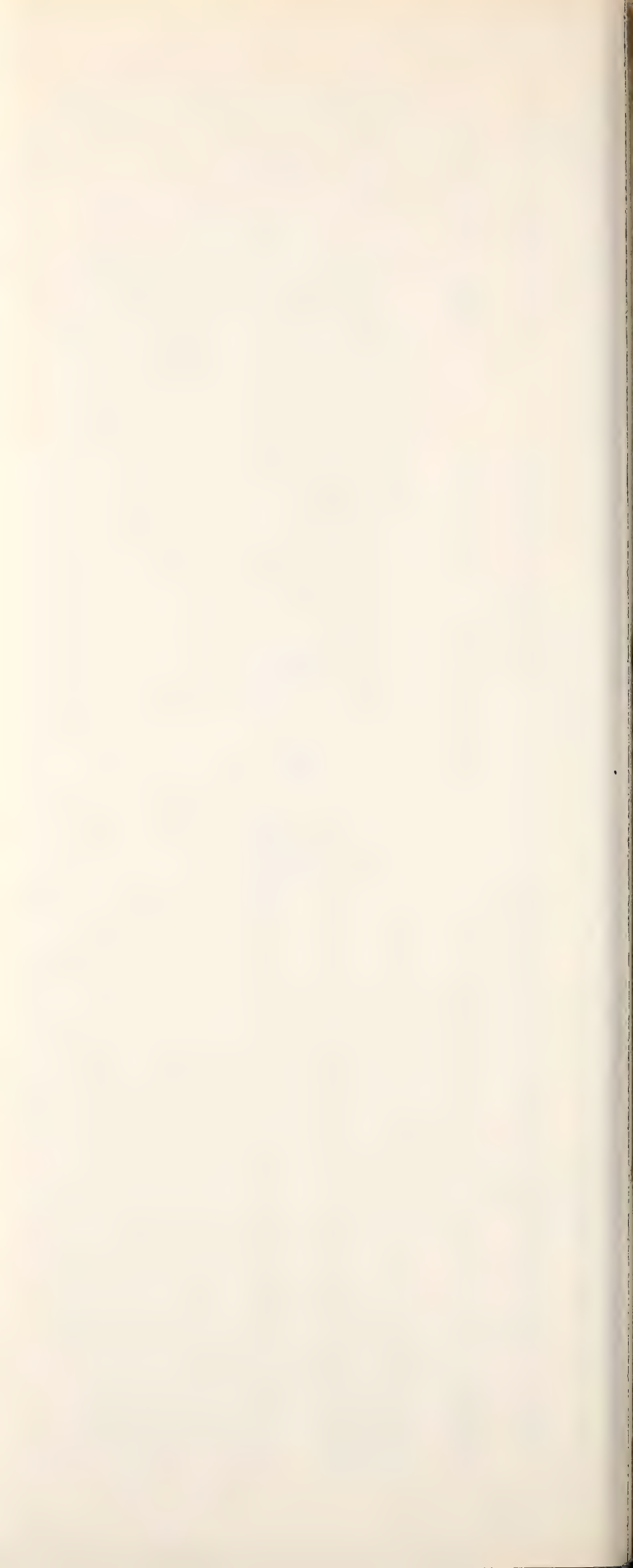
Class \_\_\_\_\_ Day ( ) Evening ( ) Number of hours student works \_\_\_\_\_

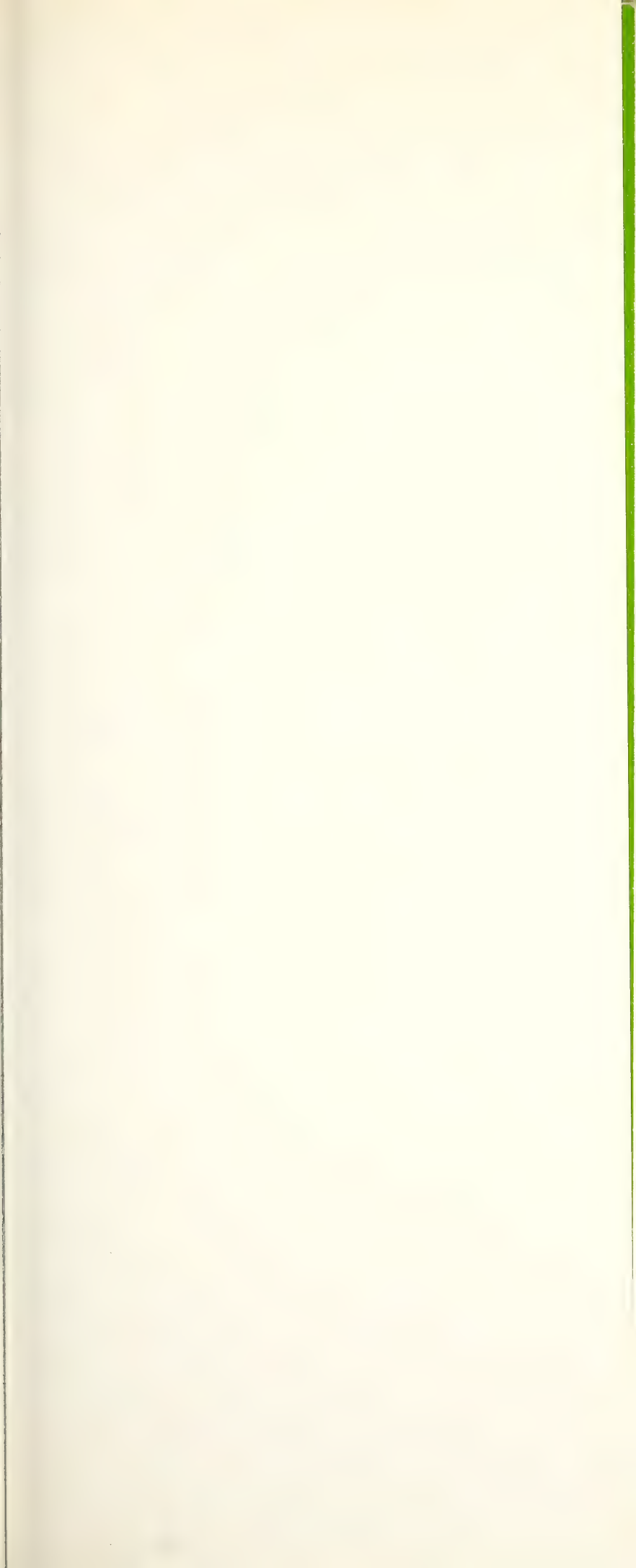
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LAUREL, ILLINOIS 02020

Return Requested

*Schedule of Classes*  
*Carbondale Campus*  
*Summer, 1967*



**outhern Illinois  
niversity Bulletin**

## This Bulletin

Contains the schedule of summer classes to be offered at the Carbondale Campus, beginning June 19, 1967. It also provides information relative to admission, advisement, registration, and fees.



# Schedule of Classes

*Summer Quarter, 1967*

*Carbondale Campus*

*June 19–September 2*

# Contents

University Calendar .....	
Registration Calendar .....	

## GENERAL INFORMATION .....

Admission .....	
-----------------	--

Registration .....	
--------------------	--

Fees .....	
------------	--

Housing .....	
---------------	--

Special Instructional Programs .....	
--------------------------------------	--

## SCHEDULE OF CLASSES .....

Schedule of General Studies Courses .....	
---	--

Schedule of Departmental Courses .....	
--	--

Schedule of Vocational-Technical Institute Courses ..	
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# University Calendar

## Spring Quarter, 1967

Quarter Begins	Monday, March 27
Memorial Day Holiday	Tuesday, May 30
Final Examinations	Monday–Saturday, June 5–10
Commencement, Edwardsville	Friday, June 9
Commencement, Carbondale	Saturday, June 10

## Summer Quarter, 1967

Quarter Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	August 28–September 2
Commencement, Edwardsville	Friday, September 1
Commencement, Carbondale	Saturday, September 2

## Fall Quarter, 1967

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Vacation	Tuesday, 10 P.M.–Monday 8 A.M., November 21–27
Final Examinations	Monday–Saturday, December 11–16
Quarter Ends	Saturday, December 16



# Registration Calendar

## Summer Quarter, 1967

**April 10–June 2.** Advance registration period for students who were enrolled in the 1966 summer session or the 1967 spring quarter and for new and re-entry students who have cleared their admission status. New students are to refer to pages 1 and 2 for additional information relative to steps they must take before they may be advised and registered.

**June 7.** Students will have their advance registration cancelled if fees are not paid at the Bursar's Office by 5 P.M., C.D.T., on this date, unless they have received approval for deferred fees.

**June 15–16.** Registration days for persons not in school during the 1967 Spring Quarter. Fees must be paid at the time of registration.

**June 19.** Summer quarter begins. Last day of regular registration. All students are expected to have completed registration by this date except for those registering only for short courses that start later than June 19. They may register on the first meeting day of class without late fee payment. Late fees apply in all other cases after this date.

**June 20.** Classes begin except for certain short courses having later starting dates. Program change processing will start.

**June 24.** Registration for the summer quarter ends except for short courses starting after this date. This also includes the registering into new courses or the changing of sections through the program change process.

**June 30.** Deadline for payment of fees by students whose fees were deferred.

**July 1.** Last day to officially withdraw from school to be eligible for a refund of fees.

**July 7.** Last day for undergraduates to officially withdraw from an eight week course without receiving an evaluation grade. Graduate students officially dropping a course after this date need not be given an evaluation grade. Last day to change from credit to audit or vice versa in an eight week course for all students.

**July 14.** Last day for undergraduates to officially withdraw from a twelve week course without receiving an evaluative grade. Graduate students officially dropping a course after this date need not be given an evaluative grade. Last day to change from credit to audit or vice versa in a twelve week course for all students.

**July 29.** Last day for making a program change or withdrawing from school except under exceptional conditions for students registered for eight-week courses.

**August 11.** Last day for making a program change or withdrawing from school except under exceptional conditions for students registered for regular quarter courses.

# General Information

## 1

### ADMISSION

Inquiries concerning undergraduate admission to the Carbondale Campus should be directed to the Admissions Office. A student seeking admission as a degree student on the graduate level needs to have his application and a transcript from each institution previously attended forwarded to the Graduate School by the last Saturday in March. Otherwise he will be admitted as an unclassified student for the summer. A student seeking admission on the undergraduate level should have all necessary papers filed with the Admissions Office no later than May 15. Regular admission policies and procedures apply to the summer, except (1) an undergraduate student attending another institution and expecting to graduate therefrom who desires to attend Southern Illinois University during the summer only will be admitted as an unclassified student on the basis of a letter of good standing from the registrar of the institution which he is attending, and (2) a high school senior who ranks in the lowest third (lower 60 percentiles for an out-of-state student) of his graduating class who is permitted to enter on scholastic probation, for the summer, must register for at least 8 hours, and he must complete his summer course work with a C average or better in order to continue in attendance during the fall. Otherwise, he must remain out of school until the 1968 Spring Quarter if he is an Illinois resident. Out-of-state students may not be permitted to re-enter at all.

Students entering directly from high school must submit scores on the ACT test as part of their admission requirements. Information as to when the ACT tests are given may be secured from the high school counselor or by writing to the American College Testing Program, Box 168, Iowa City, Iowa.

### REGISTRATION & ADVISEMENT

The Carbondale Campus uses an academic advisement system whereby each undergraduate academic unit has a chief academic adviser and a number of assistant advisers selected from the teaching faculty. Undergraduate students entering the University for the first time will receive selective dates from the admission process from which they are to select the preferred date on which they will come to the campus to be advised and to advance

register. This includes both freshmen and transfer students. They are not to write for appointments nor are they to come to Carbondale expecting to register unless it is the date indicated for them to do so.

Graduate students are to follow the procedures indicated below depending upon whether they are new, re-entering, or continuing students in being advised and registered.

After advisement the student may register for classes. The registration calendar begins on page iv. Ordinarily registration offices are open from 8:00 to 12:00 noon and 1:00 to 5:00 P.M., Monday through Friday, and from 8:30 to 12:00 noon on Saturday.

During the registration process the student goes through the Sectioning Center where the assignment is made to specific sections of the courses he is to take.

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class.

### *NEW STUDENTS*

Students entering the University for the first time are permitted to advance register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

New undergraduate students, freshmen and transfer students will be expected to advance register on the same date that they come to the campus for advisement. Dates for students to do so will be selective ones in which the students are asked to come to the campus on specific dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted nor are they to come to the campus for advisement and registration without an appointment. Appointments for advisement and registration will be mailed from the Registrar's Office and are to be returned to the Registrar's Office.

New graduate students may advance register during the advance registration period from April 10 through June 2. Arrangements should be cleared with the Graduate School to do so to assure that the appropriate advisors will be available.

Students who desire to advance register for the 1966 summer quarter should be sure to have completed admission procedures by May 15 so as to permit all necessary papers to be furnished to the advisers at the time of advisement. Students admitted after this date will register at the start of the fall quarter along with students admitted earlier who cannot take advantage of the advance registration procedure.

### *RE-ENTERING STUDENTS*

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to advance register during the periods outlined in the Registration Calendar. After completing readmission procedures (Admission Office)



Office for undergraduate students and Graduate School for graduate students) advisement appointments should be made at the advisement offices of the academic units into which the students are entering and clearance of the registrations should be completed on that same day at the Sectioning Center.

### *CURRENT STUDENTS, CARBONDALE CAMPUS*

Students currently registered in the University will be continued in their present curricula unless a change of college or major is made. A change of college or major is initiated with the student's adviser. Either change should be made at the time of advisement.

Undergraduate students currently registered in the University will schedule appointments with their adviser. Registrations should be processed through the Sectioning Center as soon after advisement as possible.

Graduate students in a degree program should make appointments with the departmental adviser for program advisement. Unclassified graduate students preparing for a degree program should contact the departmental adviser for preadvisement. Unclassified graduate students in other categories may report directly to the Graduate School for registration procedure. Unclassified students who are planning to take qualifying courses must report those courses to the Graduate Admissions office *before* registering each quarter.

### *CURRENT STUDENTS, EDWARDSVILLE CAMPUS*

Undergraduate students attending the Edwardsville Campus who plan to attend the Carbondale Campus must initiate their registration process by presenting to the Admissions Office at Carbondale either an official transcript of their University record or a letter of good standing from the registrar at the Edwardsville Campus. The reason for reporting to the Admissions Office is to permit the necessary coding changes to be made so that pertinent information about their academic programs, etc., can be up-dated to reflect the change of campus. Graduate students report first to the Graduate School.

## **PAYMENT OF FEES**

Students receive their fee statements at the time of registration. During the advance registration period students are asked to delay paying their fees in person at the Bursar's Office until the day following registration. This is to permit necessary fee information to reach the Bursar by the time of fee payment. Students will find it easier to simply mail the fee statement along with the proper monetary amount to the Bursar's Office so as to arrive here by the deadline dates which are stated in the Registration Calendar located earlier in this Schedule. If students pay fees in person at the Bursar's Office they receive a Certificate of Registration at that time. When paying by mail they may pick up the certificate at the Bur-

sar's Office. Later, students will receive their printed schedule of classes at the time and place announced by the Registrar's Office. It is important that these forms be carried by the students at all times.

Students registering at the start of a quarter must pay fees at the time of registration.

Students advance registering may have their fees deferred provided the total amount of fees payable is \$35 or more. This is done through the Financial Assistance Office. Students attempting to do this via mail must do so several days prior to the fee deadline and must include their Fee Statement with the written request for deferment.

### *F E E S   F O R   A   R E G U L A R Q U A R T E R*

The University reserves the right to change fees and to have the change go into effect whenever the proper authorities so determine. Under the current fee schedule, Illinois undergraduate students taking more than 8 hours pay the following regular fees:

Tuition .....	\$42.00
Student Welfare and Recreational Facilities Building Trust Fund Fee .....	15.00
Book Rental .....	8.00
Activity fee .....	10.50
University Center fee .....	5.00
Total .....	<u>\$80.50</u>

Out-of-state students will pay an additional tuition of \$130 if taking more than 8 hours and an additional \$65 if taking 8 hours or fewer.

An Illinois undergraduate taking 8 or fewer hours will pay half tuition and book rental, will have an option of paying the activity fee, and will pay the full University Center fee. Once an option has been made by a student at the time of registration as to whether or not to pay the activity fee, such option is irrevocable. A part-time student, then, will pay either \$30 or \$40.50.

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

In addition to the above, students registering for the first time during the year for AF ROTC will be subject to a \$5 equipment deposit.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status.

### *L A T E   R E G I S T R A T I O N*

The first day of a quarter is considered the last day of the regular registration period. Registrations thereafter including those involving "to be arranged," are considered late registrations and are assessed the appropriate late fee. This is \$2 the first day with an additional \$1 per day to a maximum of \$5. The only exception to this is in the case of those registering only for short courses.

that start later than June 19. They may register on the first meeting date of the class without late fee payment.

## AUDITING OF COURSES

Students may register for courses in an "audit" status. They receive no letter grade and no credit for such courses. An auditor's registration must be marked accordingly. They pay the same fees as though they were registering for credit. They are expected to attend regularly and are to determine from the instructor the amount of work expected of them. If auditing students do not attend regularly, the instructor may determine that the students should not have the audited courses placed on their record cards maintained in the Registrar's Office. Students registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter. Such a change will require the student's academic dean's approval.

## HOUSING

Both single and married students, interested in University housing for the summer quarter, should contact the University Housing Office. Information is also available concerning off-campus housing.

## SPECIAL INSTRUCTIONAL PROGRAMS

Field courses, workshops, and other special programs offered during the summer for credit are listed in the following schedule.



# Schedule of Classes

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows: **Bold-Face Line:** The courses's identification number is followed by the number of quarter hours of credit and the descriptive title. A dotted line separates the title from the prerequisite, which appears at the right-hand end of the first line and may continue to the second line. **Light-Face Lines:** The first column lists the section numbers for summer classes. Following each section number are the time the class begins and the time it ends. The days on which the class meets, the place where it meets, and the instructor's last name complete the entry.

Buildings which house summer classrooms are listed below. If a building contains more than one classroom, then the number, or letter of the room is separated from the building's code. For example, **M 314** means room number 314 in Old Main; **T32 R111** means room 111 in building T32.

A .....	Allyn Building
Ag .....	Agriculture Building
Alg .....	Altgeld Hall
Arena .....	S.I.U. Arena
Aud .....	Shryock Auditorium
Bowling Alley .....	in the University Center
Browne .....	Browne Auditorium
Cl .....	Classroom Building
Comm .....	Communications Building
EL .....	Applied Science Laboratories
Gym .....	Gymnasium
H .....	a numbered temporary building
Handball .....	Handball Court
HEc .....	Home Economics Building
L .....	Lawson Hall
LG .....	Little Grassy Lake
LS .....	Life Science Building
M .....	Old Main
P .....	Parkinson Laboratory
Pool .....	University Swimming Pool
Pull .....	Pulliam Hall
R .....	a Religious Foundation
T .....	a numbered temporary building
Tech .....	Technology Building
Tennis .....	Tennis Courts
Stad .....	McAndrew Stadium
Wh .....	Wheeler Hall
Wham .....	Wham Education Building

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
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# **GENERAL STUDIES AREA A— MAN'S PHYSICAL ENVIRONMENT AND BIOLOGICAL INHERITANCE (GSA)**

<b>101a-3</b>	<b>Energy and Particles I—Physics</b>				
1	7:30-8:20	M W F	Browne Aud.		
2	10:30-11:20	M W F	Browne Aud.		
3	12:30-1:20	M W F	Browne Aud.		
4	2:30-3:20	M W F	Browne Aud.		
<b>101b-3</b>	<b>Introduction to Physical Science</b>				
1	8:30-9:20	M W F	Browne		
<b>CHEM 101b-1</b>	<b>Optional Laboratory for GSA 101b</b>			<b>Concurrent enrollment in 101b</b>	
1	7:30-10:20	Tu	P 213		
2	7:30-10:20	Th	P 213		
3	1:30-4:20	Tu	P 213		
4	1:30-4:20	Th	P 213		
<b>101c-3</b>	<b>Introduction to Physical Science</b>				<b>101b</b>
1	1:30-2:20	M W F	Browne		
<b>CHEM 101c-1</b>	<b>Optional Laboratory for GSA 101c</b>			<b>Concurrent enrollment in 101c</b>	
1	10:30-1:20	Tu	P 213		
2	7:30-10:20	W	P 213		
3	10:30-1:20	Tu	P 213		
4	10:30-1:20	Th	P 213		
<b>110a-4</b>	<b>Earth and Its Environment</b>				
1	10:30-11:20	M W F	Lawson 151	Harris & Jones	
	Autotutorial Laboratory				
<b>110b-4</b>	<b>Earth and Its Environment</b>				<b>110a</b>
1	12:30-1:20	MTu Th	Lawson 151	Harris & Jones	
	Autotutorial Laboratory				
<b>201a-4</b>	<b>Introductory Biology</b>				<b>First Level GSA</b>
τ1	7:30-8:20	M W F	L 151		
	7:30-9:20	Tu	H27 c		
τ2	7:30-8:20	M W F	L 151		
	9:30-11:20	Tu	H27 c		
τ3	7:30-8:20	M W F	L 151		
	12:30-2:20	Tu	H27 c		
τ4	7:30-8:20	M W F	L 151		
	2:30-4:20	Tu	H27 c		
5	7:30-8:20	M W F	L 151		
	8:30-10:20	W	H27 c		
6	7:30-8:20	M W F	L 151		
	12:30-2:20	W	H27 c		
7	7:30-8:20	M W F	L 151		
	2:30-4:20	W	H27 c		
8	7:30-8:20	M W F	L 151		
	7:30-9:20	Th	H27 c		
9	7:30-8:20	M W F	L 151		
	12:30-2:20	Th	H27 c		
10	7:30-8:20	M W F	L 151		
	2:30-4:20	Th	H27 c		
11	7:30-8:20	M W F	L 151		
	8:30-10:20	F	H27 c		
12	7:30-8:20	M W F	L 151		
	12:30-2:20	F	H27 c		
<b>201b-3</b>	<b>Man's Biological Inheritance</b>				<b>201a</b>
τ1	8:30-9:20	Tu Th	L 151		
	12:30-2:20	Tu	H26 c		
τ2	8:30-9:20	Tu Th	L 151		
	2:30-4:20	Tu	H26 c		
3	8:30-9:20	Tu Th	L 151		
	7:30-9:20	W	H26 c		
4	8:30-9:20	Tu Th	L 151		
	9:30-11:20	W	H26 c		
5	8:30-9:20	Tu Th	L 151		
	12:30-2:20	W	H26 c		
6	8:30-9:20	Tu Th	L 151		
	2:30-4:20	W	H26 c		
7	8:30-9:20	Tu Th	L 151		
	9:30-11:20	Th	H26 c		
8	8:30-9:20	Tu Th	L 151		
	12:30-2:20	Th	H26 c		
9	8:30-9:20	Tu Th	L 151		
	2:30-4:20	Th	H26 c		

## 8 GENERAL STUDIES AREA A (GSA)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
201b-3	Man's Biological Inheritance			201a
t10	8:30-9:20	Tu Th	L 151	
	7:30-9:20	F	H26 c	
t11	8:30-9:20	Tu Th	L 151	
	12:30-2:20	F	H26 c	
201c-3	Man's Biological Inheritance			201b
1	8:30-9:20	W F	L 151	
	1:30-3:20	W	H27 a	
t2	8:30-9:20	W F	L 151	
	7:30-9:20	Th	H27 a	
3	8:30-9:20	W F	L 151	
	12:30-2:20	Th	H27 a	
t4	8:30-9:20	W F	L 151	
	2:30-4:20	Th	H27 a	
301-4	Principles of Physiology			
1	10:30-11:20	M W F	LS G 16	Richardson
	10:30-12:20	Tu	LS 113	
2	10:30-11:20	M W F	LS G 16	Richardson
	10:30-12:20	Th	LS 113	
303-3	Ferns, Wild Flowers & Trees			
1	9:30-10:20	M	LS 323	Mohlenbrock
1	7:30-9:20	Tu Th	H26 a	Marberry
2	9:30-10:20	M	LS 323	Mohlenbrock
2	9:30-11:20	Tu Th	H26 a	Bollwinkel
312-3	Conservation of Natural Resources			1 year Biology
1	3:30-4:20	M W F	L 171	
313-3	Evolution			1 year Biology
1	8:30-9:20	M W F	L 171	
321-3	Introduction to Paleontology			200 or 201b
1	12:30-1:20	W F	Ag 166	Utgaard
	8:30-10:20	M	Ag 170	
2	12:30-1:20	W F	Ag 166	Utgaard
	10:30-12:20	M	Ag 170	
3	12:30-1:20	W F	Ag 166	Utgaard
	1:30-3:20	Tu	Ag 170	
4	12:30-1:20	W F	Ag 166	Utgaard
	3:30-5:20	Tu	Ag 170	
t5	12:30-1:20	W F	Ag 166	Utgaard
	2:30-4:20	M	Ag 170	
322-3	Introduction to Rocks & Minerals			101c or 110b
1	7:30-8:20	Tu Th	Ag 168	Bell
	8:30-10:20	W	Ag 174	
2	7:30-8:20	Tu Th	Ag 168	Bell
	10:30-12:20	W	Ag 170	
3	7:30-8:20	M W	Ag 168	Bell
	12:30-2:20	W	Ag 171	
4	7:30-8:20	M W	Ag 168	Bell
	2:30-4:20	W	Ag 171	
t5	7:30-8:20	Tu Th	Ag 168	Bell
	8:30-10:20	Tu	Ag 174	
331-3	Climate			
1	*8:30-9:20	MTuWTh	L 141	
340-3	Ecology			
1	8:30-9:20	M W F	LS 323	Voigt
345-3	Economic Botany			201c
1	9:30-10:20	M W F	L 231	Welch
2	10:30-11:20	M W F	L 231	Welch
354a-3	History of the Theater			
1	11:30-12:20	M W F	L 171	Abrams
358a-3	Analysis of Physical Systems			101, Math 111b
1	7:30-8:20	Tu Th	Tech A122	
	12:30-2:20	Tu	Tech D14	
358b-3	Analysis of Physical Systems			101, Math 111b
1	8:30-9:20	Tu Th	Tech A122	
	12:30-2:20	Th	Tech D104	
361-3	Acoustics of Music and Acoustics			
1	8:30-9:20	M W F	Alg 116	Gordon

**GENERAL STUDIES AREA B—MAN'S  
SOCIAL INHERITANCE AND  
SOCIAL RESPONSIBILITIES (GSB)**

101a-3	Man & Culture in Time and Space			101b & c preferred
1	8:30-9:20	M W F	Comm 116	
2	8:30-9:20	M W F	Comm 118	
3	8:30-9:20	M W F	Comm 120	

\* June 19-August 11



Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
4	8:30–9:20	M W F	Comm 122	
5	9:30–10:20	M W F	Comm 116	
6	9:30–10:20	M W F	HEc 102	
7	9:30–10:20	M W F	HEc 106	
8	9:30–10:20	M W F	HEc 201	
9	1:30–2:20	M W F	Comm 122	
10	1:30–2:20	M W F	HEc 102	
11	1:30–2:20	M W F	HEc 106	
12	1:30–2:20	M W F	HEc 201	
13	2:30–3:20	M W F	Comm 122	
14	2:30–3:20	M W F	Comm 120	
15	2:30–3:20	M W F	Comm 116	
16	2:30–3:20	M W F	Comm 118	
<b>101b–3</b>	<b>Survey of Western Tradition</b>			
1	8:30–9:20	Tu Th	L 161	Stromberg
	10:30–11:20	Th	HEc 102	
2	8:30–9:20	Tu Th	L 161	Stromberg
	11:30–12:20	Th	M 102	
3	8:30–9:20	Tu Th	L 161	Stromberg
	1:30–2:20	Th	HEc 102	
4	8:30–9:20	Tu Th	L 161	Stromberg
	2:30–3:20	Th	M 102	
5	8:30–9:20	Tu Th	L 161	Stromberg
	7:30–8:20	F	M 201	
6	8:30–9:20	Tu Th	L 161	Stromberg
	9:30–10:20	F	M 203	
7	8:30–9:20	Tu Th	L 161	Stromberg
	11:30–12:20	F	HEc 306	
8	8:30–9:20	Tu Th	L 161	Stromberg
	1:30–2:20	F	Wh 107	
9	8:30–9:20	Tu Th	L 161	Stromberg
	3:30–4:20	F	M 102	
r10	8:30–9:20	Tu Th	L 161	Stromberg
	3:30–4:20	Th	M 102	
11	3:30–4:20	Tu Th	L 161	
	7:30–8:20	W	M 102	
12	3:30–4:20	Tu Th	L 161	
	9:30–10:20	W	HEc 306	
13	3:30–4:20	Tu Th	L 161	
	11:30–12:20	W	HEc 306	
14	3:30–4:20	Tu Th	L 161	
	1:30–2:20	W	M 102A	
15	3:30–4:20	Tu Th	L 161	
	3:30–4:20	W	M 102	
16	3:30–4:20	Tu Th	L 161	
	8:30–9:20	F	Wham 303	
17	3:30–4:20	Tu Th	L 161	
	10:30–11:20	F	HEc 306	
18	3:30–4:20	Tu Th	L 161	
	12:30–1:20	F	M 102	
19	3:30–4:20	Tu Th	L 161	
	2:30–3:20	F	M 102	
r20	3:30–4:20	Tu Th	L 161	
	2:30–3:20	Th	M 102A	
<b>101c–3</b>	<b>Survey of Western Tradition</b>			
1	1:30–2:20	Tu Th	L 171	Gold
	2:30–3:20	Tu	M 102	
2	1:30–2:20	Tu Th	L 171	Gold
	3:30–4:20	Tu	M 102	
3	1:30–2:20	Tu Th	L 171	Gold
	8:30–9:20	W	M 102	
4	1:30–2:20	Tu Th	L 171	Gold
	10:30–11:20	W	M 102	
5	1:30–2:20	Tu Th	L 171	Gold
	12:30–1:20	W	M 102	
r6	1:30–2:20	Tu Th	L 171	Gold
	2:30–3:20	W	M 102	
<b>201a–3</b>	<b>Culture, Society, and Behavior</b>			
1	9:30–10:20	M W	L 161	
	7:30–8:20	Th	HEc 306	
2	9:30–10:20	M W	L 161	
	8:30–9:20	Th	HEc 306	
3	9:30–10:20	M W	L 161	
	9:30–10:20	Th	HEc 306	
4	9:30–10:20	M W	L 161	
	1:30–2:20	Th	HEc 306	
5	9:30–10:20	M W	L 161	
	2:30–3:20	Th	HEc 306	

## 10 GENERAL STUDIES AREA B (GSB)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
<b>201a-3 Culture, Society, and Behavior</b>				
6	9:30-10:20	M W	L 161	
	3:30-4:20	Th	HEc 306	
7	11:30-12:20	M W	L 151	
	7:30-8:20	F	HEc 306	
8	11:30-12:20	M W	L 151	
	8:30-9:20	F	HEc 306	
9	11:30-12:20	M W	L 151	
	9:30-10:20	F	HEc 306	
10	11:30-12:20	M W	L 151	
	12:30-1:20	F	HEc 306	
11	11:30-12:20	M W	L 151	
	1:30-2:20	F	HEc 306	
12	11:30-12:20	M W	L 151	
	2:30-3:20	F	HEc 306	
<b>201b-3 Culture, Society, and Behavior</b>				
1	7:30-8:20	M W F	Bailey 130	Blair
2	8:30-9:20	M W F	Bailey 130	Nall
3	9:30-10:20	M W F	Bailey 130	Nall
4	10:30-11:20	M W F	Bailey 130	
5	11:30-12:20	M W F	Bailey 130	
6	12:30-1:20	M W F	Bailey 130	
7	1:30-2:20	M W F	Bailey 130	
8	2:30-3:20	M W F	Bailey 130	
9	7:30-8:20	M W F	HEc 202	
10	8:30-9:20	M W F	M 206	
11	9:30-10:20	M W F	Tech A208	
r12	10:30-11:20	M W F	M 210	
r13	11:30-12:20	M W F	HEc 303	
r14	12:30-1:20	M W F	HEc 303	
<b>201c-4 Culture, Society, and Behavior</b>				
1	10:30-11:20	M W	L 141	201a Carrier
	7:30-9:20	Th	Ag 116	
2	10:30-11:20	M W	L 141	Carrier
	9:30-11:20	Th	Ag 116	
3	10:30-11:20	M W	L 141	Carrier
	11:30-1:20	Th	Ag 116	
4	10:30-11:20	M W	L 141	Carrier
	1:30-3:20	Th	Ag 116	
5	10:30-11:20	M W	L 141	Carrier
	7:30-9:20	F	Ag 150	
6	10:30-11:20	M W	L 141	Carrier
	9:30-11:20	F	Ag 150	
7	10:30-11:20	M W	L 141	Carrier
	11:30-1:20	F	Ag 150	
8	10:30-11:20	M W	L 141	Carrier
	1:30-3:20	F	Ag 150	
9	10:30-11:20	M W	L 141	Carrier
	9:30-11:20	Th	Ag 168	
10	10:30-11:20	M W	L 141	Carrier
	11:30-1:20	Th	Ag 168	
<b>211a-4 Political Economy, I</b>				
1	9:30-10:20	M WThF	L 231	Hand
2	1:30-2:20	M WThF	L 231	Hand
<b>211b-4 Political Economy</b>				
1	7:30-8:20	MTuW F	Wham 201	
2	8:30-9:20	MTu ThF	Wham 201	
3	9:30-10:20	MTuW F	Wham 319	
4	10:30-11:20	MTu ThF	Wham 319	
5	11:30-12:20	MTuWTh	Wham 201	
6	12:30-1:20	MTuWTh	Wham 201	
<b>211c-3 Political Economy, III</b>				
1	11:30-12:20	M W F	L 221	211a & 211b Morrison
2	12:30-1:20	MTu Th	L 131	
<b>300b-3 History of the United States (1815-1900)</b>				
1	7:30-8:20	M W F	L 161	Adams
<b>300c-3 History of the United States (since 1900)</b>				
1	11:30-12:20	M W F	L 161	
<b>303-3 International Relations</b>				
1	7:30-8:20	MTu Th	HEc 122	
2	12:30-1:20	MTu Th	Wham 206	
<b>304-3 Law: History and Philosophy</b>				
1	1:30-2:20	MTu Th	Wham 321	Abbass
<b>311-3 Economic Development of the U.S.</b>				
1	7:30-8:20	Tu ThF	Wham 308	101c or 211c Layer
<b>312-3 Comparative Economic Systems</b>				
1	12:30-1:20	M WTh	Wham 308	211c Haitani

Course	No.—Hours Summer	Descriptive Title Time	Days			Place	Prerequisite Instructor
314-3		<b>Economic Analysis of the Agricultural Policies of the U.S.</b>					
	1	11:30-12:20	M	W	F	Ag 116	Haag
321-3		<b>Socialization of the Individual</b>					
	1	8:30-9:20	M	W	F	Ag 168	Rossel
	2	1:30-2:20	M	W	F	HEc 303	Nall
325-3		<b>Race and Minority Relations</b>					
	1	9:30-10:20	M	W	F	Ag 116	Patterson
331-3		<b>The American Educational Systems</b>					
	1	7:30-8:20	M	W	F	Wham 321	
	2	8:30-9:20	M	W	F	Wham 321	
	3	9:30-10:20	M	W	F	Wham 321	
	4	10:30-11:20	M	W	F	Wham 321	
341-3		<b>Marriage</b>					
	1	10:30-11:20	M	W	F	Wham 112	Snyder
361-3		<b>Engineering Economics</b>					
	1	10:30-11:20	M	W	F	Tech A122	Junior standing
385-3		<b>Contemporary Political Isms</b>					
	1	8:30-9:20	M	W	F	Wham 319	Kamarasy
390-3		<b>Introduction to Comparative Governments</b>					
	1	1:30-2:20	M	W	F	Wham 319	
392-3		<b>Introduction Latin American Government and Politics</b>					
	1	9:30-10:20	M	W	F	Wham 312	Garner

### GENERAL STUDIES AREA C — MAN'S INSIGHTS AND APPRECIATIONS (GSC)

100-3		<b>Music Understanding</b>					
	1	12:30-1:20	M	W	F	L 161	Betterton
	2	1:30-2:20	Tu	Th	F	L 161	Betterton
101-3		<b>Art Appreciation</b>					
	Lecture	1:30-2:20	Tu	Th		Browne	Magnus
	1	1:30-3:20	M			A 102	
	2	1:30-3:20		W		A 102	
	3	10:30-12:20			F	A 102	
	4	7:30-9:20	M			A 102	
	5	10:30-12:20	M			A 102	
	6	7:30-9:20		W		A 102	
	7	10:30-12:20		W		A 102	
	8	7:30-9:20			F	A 102	
	9	7:30-9:20	Tu			A 102	
	10	7:30-9:20		Th		A 102	
	11	7:30-9:20	M			A 106	
	12	10:30-12:20	M			A 106	
	13	10:30-12:20		W		A 106	
	14	7:30-9:20			F	A 106	
	15	10:30-12:20			F	A 106	
	16	9:30-11:30		Th		A 106	
102-3		<b>Problems of Moral Decision</b>					
	1	9:30-10:20	M	W		L 141	Howie
		10:30-11:20		W		HEc 118	
	2	9:30-10:20	M	W		L 141	Howie
		12:30-1:20		W		HEc 208	
	3	9:30-10:20	M	W		L 141	Howie
		1:30-2:20		W		HEc 208	
	4	9:30-10:20	M	W		L 141	Howie
		8:30-9:20		Th		HEc 208	
	5	9:30-10:20	M	W		L 141	Howie
		10:30-11:20		Th		HEc 208	
	6	9:30-10:20	M	W		L 141	Howie
		12:30-1:20		Th		HEc 208	
	7	9:30-10:20	M	W		L 141	Howie
		1:30-2:20		Th		HEc 208	
	8	9:30-10:20	M	W		L 141	Howie
		8:30-9:20		F		HEc 208	
	9	12:30-1:20	Tu	Th		L 141	Kelly
		1:30-2:20		Th		HEc 201	
	10	12:30-1:20	Tu	Th		L 141	Kelly
		2:30-3:20		Th		HEc 208	
	11	12:30-1:20	Tu	Th		L 141	Kelly
		8:30-9:20		F		M 201	
	12	12:30-1:20	Tu	Th		L 141	Kelly
		9:30-10:20		F		M 206	
	13	12:30-1:20	Tu	Th		L 141	Kelly
		10:30-11:20		F		M 206	
	14	12:30-1:20	Tu	Th		L 141	Kelly
		1:30-2:20		F		HEc 208	



## 12 GENERAL STUDIES AREA C (GSC)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
<b>102-3</b>	<b>Problems of Moral Decision</b>			
15	12:30-1:20	Tu Th	L 141	Kelly
	8:30-9:20	Tu	HEc 208	
16	12:30-1:20	Tu Th	L 141	Kelly
	9:30-10:20	Tu	HEc 208	
<b>103-3</b>	<b>World Literature for Composition</b>			<b>GSD 102 or equivalent ACT percentile</b>
1	7:30-8:20	M W F	M 306	
2	7:30-8:20	M W F	M 306A	
3	8:30-9:20	M W F	M 306	
4	9:30-10:20	M W F	M 306	
5	9:30-10:20	M W F	M 306A	
6	10:30-11:20	M W F	M 306	
7	11:30-12:20	M W F	M 306	
8	11:30-12:20	M W F	M 306A	
9	12:30-1:20	M W F	Wham 317	
10	1:30-2:20	M W F	M 306	
11	2:30-3:20	M W F	HEc 208	
12	2:30-3:20	M W F	HEc 120	
13	3:30-4:20	M W F	HEc 208	
14	3:30-4:20	M W F	HEc 120	
<b>200-3</b>	<b>Oral Interpretation of Literature</b>			
1	1:30-2:20	MTu ThF	Comm 118	Kleinau
2	9:30-10:20	Tu WThF	Comm 118	Kleinau
<b>201-3</b>	<b>Introduction to Drama</b>			<b>103</b>
1	8:30-9:20	M W F	M 203	
2	10:30-11:20	M W F	M 203	
3	12:30-1:20	MTu Th	M 203	
4	2:30-3:20	M W F	HEc 201	
5	3:30-4:20	MTu Th	HEc 201	
<b>202-3</b>	<b>Introduction to Poetry</b>			<b>103</b>
1	7:30-8:20	M W F	M 203	
2	10:30-11:20	MTu Th	M 307	
3	12:30-1:20	MTu Th	M 102A	
4	1:30-2:20	M W F	M 203	
5	2:30-3:20	MTu Th	Wham 203	
<b>203-3</b>	<b>Drama &amp; The Arts of the Theater</b>			
1	10:30-11:20	Tu Th	L 131	Abrams
	1:30-2:20	Th	Wham 307	
2	10:30-11:20	Tu Th	L 131	Abrams
	2:30-3:20	Th	Wham 307	
3	10:30-11:20	Tu Th	L 131	Abrams
	1:30-2:20	F	Wham 312	
4	10:30-11:20	Tu Th	L 131	Abrams
	2:30-3:20	F	Wham 312	
<b>204-3</b>	<b>Meaning in the Visual Arts</b>			<b>101</b>
1	8:30-9:20	M W F	L 161	Magnus
<b>205-3</b>	<b>The Contemporary Environment</b>			
1	9:30-11:20	Tu	L 151	Grosowsky
	10:30-11:20	Th	L 151	Grosowsky
<b>206-3</b>	<b>Foundations of Music</b>			<b>100</b>
1	12:30-1:20	Tu ThF	Alg 116	Intravaia
2	1:30-2:20	M W F	Alg 116	Spurbeck
<b>207-3</b>	<b>Philosophy of the Beautiful</b>			
1	10:30-11:20	Tu Th	Wham 308	Howie
	12:30-1:20	Th	HEc 202	
2	10:30-11:20	Tu Th	Wham 308	Howie
	1:30-2:20	Th	HEc 202	
3	10:30-11:20	Tu Th	Wham 308	Howie
	8:30-9:20	F	HEc 202	
4	10:30-11:20	Tu Th	Wham 308	Howie
	9:30-10:20	F	HEc 202	
<b>208-4</b>	<b>Logic and Meaning</b>			
1	8:30-9:20	M W F	Wham 308	Moore
	12:30-1:20	W	HEc 202	
2	8:30-9:20	M W F	Wham 308	Moore
	1:30-2:20	W	HEc 202	
3	8:30-9:20	M W F	Wham 308	Moore
	8:30-9:20	Th	HEc 202	
4	8:30-9:20	M W F	Wham 308	Moore
	9:30-10:20	Th	HEc 208	
<b>209-4</b>	<b>Modern Literature: Form and Idea</b>			<b>103</b>
1	7:30-8:20	MTu ThF	M 309	
2	8:30-9:20	MTu ThF	M 306A	
3	9:30-10:20	MTu ThF	M 309	
4	10:30-11:20	MTu ThF	M 306A	
5	11:30-12:20	MTu ThF	M 309	

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
6	12:30-1:20	MTuW F	HEc 206	
7	1:30-2:20	MTu ThF	M 306A	
8	2:30-3:20	MTu ThF	HEc 118	
9	3:30-4:20	MTuWTh	HEc 202	
10	3:30-4:20	MTuWTh	HEc 203	
<b>210-3</b>	<b>Introduction to Fiction</b>			<b>103</b>
1	7:30-8:20	M W F	M 310	
2	9:30-10:20	M W F	M 310	
3	10:30-11:20	M W F	M 309	
4	11:30-12:20	M W F	M 310	
5	2:30-3:20	MTu Th	HEc 203	
6	3:30-4:20	MTu Th	HEc 303	
<b>301-3</b>	<b>Introduction to Semantics</b>			
1	10:30-11:20	M W F	M 310	
2	2:30-3:20	M W F	M 203B	
<b>317-3</b>	<b>Recent American Literature</b>			
1	10:30-11:20	M W F	M 305	
2	11:30-12:20	M W F	M 201	
3	2:30-3:20	M W F	HEc 206	
4	3:30-4:20	M W F	HEc 206	
<b>321-3</b>	<b>Revolution and Romanticism</b>			
1	9:30-10:20	M W F	M 305	
<b>335-3</b>	<b>Studies in Short Fiction</b>			
1	7:30-8:20	M W F	M 102A	
2	8:30-9:20	M W F	M 309	
3	11:30-12:20	M W F	M 203	
4	12:30-1:20	M W F	Wham 321	
5	1:30-2:20	M W F	M 309	
6	3:30-4:20	MTu Th	M 203B	
<b>340-3</b>	<b>19th Century Painting</b>			<b>101 or Art 100</b>
1	10:30-11:20	M W F	L 131	Magnus
<b>345-3</b>	<b>World Literature</b>			
1	8:30-9:20	MTu Th	M 310	
2	9:30-10:20	MTu Th	M 307	
3	10:30-11:20	M W F	M 203B	
4	12:30-1:20	M W F	Wham 326	
5	1:30-2:20	MTu Th	M 305	
6	2:30-3:20	MTu Th	HEc 303	
<b>357b-3</b>	<b>Music History and Literature</b>			<b>Music 105c or GSC 206</b>
1	11:30-12:20	M WThF	Alg 116	Morgan
<b>365-3</b>	<b>Shakespeare</b>			
1	9:30-10:20	MTu Th	M 203	
2	1:30-2:20	MTu Th	M 310	
<b>381-3</b>	<b>Greek Philosophy</b>			
1	9:30-10:20	M W F	HEc 208	
<b>382-3</b>	<b>Graeco-Roman and Medieval Philosophies</b>			
1	10:30-11:20	M W F	HEc 208	Kelly
<b>383-3</b>	<b>Early Modern Philosophy</b>			
1	11:30-12:20	M W F	HEc 208	Moore

### GENERAL STUDIES AREA D— ORGANIZATION AND COMMUNICATION OF IDEAS (GSD)

<b>101-3</b>	<b>English Composition</b>			
1	7:30-8:20	M W F	Wham 307	
2	7:30-8:20	M W F	Wh 113	
3	7:30-8:20	M W F	Gym 203	
4	7:30-8:20	M W F	HEc 118	
5	8:30-9:20	M W F	Wham 307	
6	8:30-9:20	M W F	Gym 203	
7	8:30-9:20	M W F	M 307	
8	9:30-10:20	M W F	Wham 307	
9	9:30-10:20	M W F	Gym 203	
10	9:30-10:20	M W F	M 305A	
11	10:30-11:20	M W F	Wham 307	
12	10:30-11:20	M W F	Gym 203	
13	10:30-11:20	M W F	M 305A	
14	11:30-12:20	M W F	Cl 326	
15	11:30-12:20	M W F	HEc 104	
16	11:30-12:20	M W F	Gym 203	
17	12:30-1:20	M W F	Wham 307	
18	12:30-1:20	M W F	Gym 203	
19	12:30-1:20	M W F	HEc 201	
20	12:30-1:20	M W F	Wham 305	
21	1:30-2:20	M W F	Wham 307	
22	1:30-2:20	M W F	Gym 203	

## 14 GENERAL STUDIES AREA D (GSD)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
<b>101-3 English Composition</b>				
23	1:30-2:20	M W F	M 303	
24	2:30-3:20	M W F	Wham 307	
25	2:30-3:20	M W F	Gym 203	
26	2:30-3:20	M W F	HEc 106	
27	3:30-4:20	M W F	Wham 307	
28	3:30-4:20	M W F	HEc 104	
29	3:30-4:20	M W F	Gym 203	
30	3:30-4:20	M W F	HEc 118	
<b>102-3 English Composition</b>				<b>101 or equivalent ACT percentile</b>
1	7:30-8:20	M W F	HEc 201	
2	8:30-9:20	M W F	Gym 204	
3	9:30-10:20	M W	HEc 202	
			F Wham 112	
4	10:30-11:20	M W F	M 303	
5	11:30-12:20	M W F	HEc 202	
6	12:30-1:20	M W F	Wham 312	
7	1:30-2:20	MTu Th	M 209	
8	2:30-3:20	MTu Th	Wham 319	
9	3:30-4:20	MTu Th	Wham 312	
10	3:30-4:20	MTu Th	Wham 317	
<b>103-3 Oral Communication of Ideas</b>				
1	7:30-8:20	Tu ThF	Comm 116	
	11:30-12:20	M	Comm 116	
2	8:30-9:20	Tu Th	Comm 116	
	8:30-9:20	M	HEc 118	
	11:30-12:20	M	Comm 118	
3	9:30-10:20	Tu Th	Comm 116	
	9:30-10:20		F Wh 210	
	11:30-12:20	M	Comm 116	
4	10:30-11:20	MTu Th	Comm 116	
	11:30-12:20	M	Comm 118	
5	11:30-12:20	Tu ThF	Comm 116	
	11:30-12:20	M	Comm 120	
6	11:30-12:20	Tu ThF	Comm 118	
	11:30-12:20	M	L 231	
7	12:30-1:20	M W F	Comm 116	
	11:30-12:20	M	Comm 122	
8	12:30-1:20	Tu ThF	Comm 118	
	11:30-12:20	M	L 231	
9	10:30-11:20	Tu ThF	Comm 118	
	11:30-12:20	M	Comm 120	
10	1:30-2:20	M W F	Comm 116	
	11:30-12:20	M	Comm 122	
11	12:30-1:20	WThF	Comm 120	
	11:30-12:20	M	L 101	
12	1:30-2:20	Tu Th	Comm 116	
	1:30-2:20		F Comm 120	
	11:30-12:20	M	L 121	
13	11:30-12:20	WThF	Comm 120	
	11:30-12:20	M	L 101	
14	3:30-4:20	Tu ThF	Comm 118	
	11:30-12:20	M	L 121	
15	2:30-3:20	TuWTh	Wh 210	
	11:30-12:20	M	L 131	
16	3:30-4:20	TuWTh	Wh 210	
	11:30-12:20	M	L 131	
<b>106-0 Intermediate Algebra</b>				
1	7:30-8:20	TuWThF	Tech A322	
2	11:30-12:20	MTuWTh	Tech A122	
3	12:30-1:20	TuWThF	Tech A122	
4	2:30-3:20	TuWThF	Tech A120	
5	2:30-3:20	TuWThF	Tech A122	
<b>108a-3 Fundamentals of Mathematics</b>				<b>106 or H.S.</b>
1	7:30-8:20	M W F	Tech A210	
2	8:30-9:20	TuW F	HEc 118	
3	9:30-10:20	Tu ThF	Tech A210	
4	10:30-11:20	M WTh	Tech A220	
5	11:30-12:20	M WTh	Tech A320	
6	12:30-1:20	M WTh	Tech A320	
7	1:30-2:20	Tu ThF	Tech A222	
8	1:30-2:20	Tu ThF	Tech A208	
9	2:30-3:20	MTu Th	Tech A210	
10	2:30-3:20	MTu Th	Tech A220	
<b>108b-3 Fundamentals of Mathematics</b>				<b>108a</b>
1	8:30-9:20	M WTh	Tech A422	



Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
t2	8:30-9:20	M W	HEc 202	
		Th	HEc 201	
3	10:30-11:20	Tu Th	Tech A122	
		F	Tech A222	
4	12:30-1:20	TuW F	Tech A208	
5	3:30-4:20	Tu ThF	Tech A120	
108c-3	Fundamentals of Mathematics			108b or consent of department
1	7:30-8:20	Tu ThF	Tech A222	
2	9:30-10:20	M W F	Tech A120	
t3	11:30-12:20	Tu ThF	Tech A210	
4	11:30-12:20	Tu Th	Tech A120	
		F	Tech A122	
110-3	Economics and Business Statistics			108b or 114b
1	12:30-1:20	Tu ThF	L 121	Brucker
114a-3	College Algebra and Trigonometry			106 or H.S.
1	9:30-10:20	MTu Th	Tech A322	
2	11:30-12:20	MTu Th	Tech A308	
3	1:30-2:20	M W	Tech A208	
		Th	Tech A120	
t4	1:30-2:20	M WTh	Tech A210	
5	2:30-3:20	M W F	Tech A322	
6	3:30-4:20	M WTh	Tech A322	
114b-3	College Algebra and Trigonometry			114a
1	8:30-9:20	Tu Th	Tech A120	
		F	Tech A208	
2	10:30-11:20	M W F	Tech A422	
t3	1:30-2:20	TuW F	Tech A322	
4	1:30-2:20	TuW	Tech A122	
		F	Tech A210	
114c-3	College Algebra and Trigonometry			114a
1	11:30-12:20	M W F	Tech A208	
t2	11:30-12:20	M W F	Tech A220	
3	2:30-3:20	M W F	Tech A320	
123a-3, 123b-3, 123c-3	Elementary French			Must be taken as a unit for 9 hours.
1	7:30-9:20	MTuWThF	Wh 107	
t2	9:30-11:20	MTuWThF	Wh 107	
3	11:30-1:20	MTuWThF	Wh 107	
4	12:30-2:20	MTuWThF	Wh 207	
123c-3	Elementary French			123b or 1 yr H.S.
1	9:30-10:20	M W F	Wh 207	
2	1:30-2:20	MTu Th	Wh 107	
3	8:30-9:20	M W F	Wh 207	
126a-3, 126b-3, 126c-3	Elementary German			Must be taken as a unit for 9 hours.
1	8:30-10:20	MTuWThF	Wh 214	
2	9:30-11:20	MTuWThF	Wh 113	
t3	1:30-3:20	MTuWThF	Wh 113	
126c-3	Elementary German			126b
1	8:30-9:20	M W F	Wh 113	
2	1:30-2:20	M W F	Wh 212	
3	2:30-3:20	M W F	Wh 212	
136a-3, 136b-3, 136c-3	Elementary Russian			Must be taken as a unit for 9 hours.
1	8:30-10:20	MTuWThF	Wh 212	
140a-3, 140b-3, 140c-3	Elementary Spanish			
1	10:30-12:20	MTuWThF	Wh 214	
2	1:30-3:30	MTuWThF	Wh 214	
140c-3	Elementary Spanish			140b-3
1	8:30-9:20	M W F	Wh 207	
2	1:30-2:20	M W F	Wh 203	

### GENERAL STUDIES AREA E — HEALTH AND PHYSICAL DEVELOPMENT—(GSE)

101a-1	Beginning Swimming (Men)			
1	9:30-10:20	M W F	Pool	
2	10:30-11:20	M WTh	Pool	Essick
102-1	Physical Fitness (Men)			
1	7:30-8:20	M W	Arena	Greene
	9:30-10:20	M	L 151	
2	8:30-9:20	M W	Arena	Okita
	9:30-10:20	M	L 151	
t3	9:30-10:20	Tu Th	Arena	
	9:30-10:20	M	L 151	

## 16 GENERAL STUDIES AREA E (GSE)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
<b>102-1 Physical Fitness (Men)</b>				
4	10:30-11:20	M W	Arena	Lutz
	9:30-10:20	M	L 151	
5	11:30-12:20	M W	Arena	Lutz
	9:30-10:20	M	L 151	
T6	11:30-12:20	Tu Th	Arena	
	9:30-10:20	M	L 151	
<b>104b-1 Badminton (Men) (all classes meet first nine weeks)</b>				
1	8:30-9:20	MTuWTh	Arena	Wilkinson
2	9:30-10:20	MTuWTh	Arena	Meade
<b>104d-1 Bowling (Men)</b>				
1	10:30-11:20	M WTh	Bowling Alley	Iubelt
2	11:30-12:20	M WTh	Bowling Alley	Iubelt
<b>104e-1 Golf (Men)</b>				
1	9:30-10:20	M W F	Arena	Holder
2	11:30-12:20	M W F	Arena	Holder
3	12:30-1:20	M WTh	Arena	Hartzog
<b>104h-1 Tennis (Men)</b>				
1	8:30-9:20	M W F	Tennis	LeFevre
2	9:30-10:20	M WTh	Tennis	Iubelt
3	10:30-11:20	M WTh	Tennis	Hartzog
4	11:30-12:20	M WTh	Tennis	Hartzog
<b>104j-1 Softball (Men)</b>				
1	8:30-9:20	M WTh	Arena	Martin
2	9:30-10:20	M WTh	Arena	Martin
<b>104x-1 Handball (Men) (all classes meet first nine weeks)</b>				
1	7:30-8:20	MTuWTh	Handball	Wilkinson
T2	8:30-9:20	MTuWTh	Handball	
3	9:30-10:20	MTuWTh	Handball	Meade
4	10:30-11:20	MTuWTh	Handball	Meade
<b>111a-1 Beginning Swimming (Women)</b>				
1	7:30-8:20	M W F	Pool	
2	8:30-9:20	M W F	Pool	
3	1:30-2:20	M W F	Pool	
<b>111b-1 Intermediate Swimming (Women)</b>				111a or equivalent
T1	8:30-9:20	M W F	Pool	
2	1:30-2:20	M W F	Pool	
<b>112-1 Basic Body Movement (Women)</b>				
1	7:30-8:20	M W F	Gym 207	
2	9:30-10:20	M W F	Gym 207	
<b>113d-1 Beginning Contemporary Dance (Women)</b>				
1	7:30-9:00	Tu Th	Gym 208	Dakak
2	9:30-11:00	Tu Th	Gym 208	Dakak
<b>114a-1 Archery (Women)</b>				
T1	7:30-9:00	M W	Gym 208	
T2	9:30-11:00	M W	Gym 208	
3	1:30-3:00	Tu Th	Gym 208	
<b>114e-1 Beginning Golf (Women)</b>				
1	8:30-10:00	M W	Gym 207	
2	9:30-11:00	Tu Th	Gym 114	Thorpe
3	10:30-12:00	Tu Th	Gym 206	
4	2:30-4:00	Tu Th	Gym 207	Stehr
<b>114h-1 Beginning Tennis (Women)</b>				
1	7:30-9:00	Tu Th	Gym 114	
2	9:30-11:00	Tu Th	Gym 114	
3	10:30-12:00	M W	Gym 114	
T4	10:30-12:00	Tu Th	Gym 114	
5	11:30-1:00	Tu Th	Gym 114	
T6	11:30-1:00	M W	Gym 206	
T7	12:30-2:00	M W	Gym 207	
<b>201-3 Healthful Living</b>				
1	7:30-8:20	MTu Th	Arena 123	
2	8:30-9:20	M W F	Tech A222	
3	9:30-10:20	Tu ThF	Arena 123	
4	10:30-11:20	MTu Th	Arena 123	
5	1:30-2:20	TuW F	Arena 121	
6	2:30-3:20	M WTh	Arena 121	
7	11:30-12:20	M W F	Arena 125	
8	11:30-12:20	TuWTh	Arena 119	
9	12:30-1:20	M W F	Arena 119	
10	8:30-9:20	M W F	HEc 102	
11	8:30-9:20	M W F	HEc 106	
12	8:30-9:20	M W F	HEc 201	
13	10:30-11:20	M W F	Comm 120	
14	10:30-11:20	M W F	HEc 102	
15	10:30-11:20	M W F	HEc 106	
16	10:30-11:20	M W F	HEc 201	
17	11:30-12:20	M W F	HEc 102	

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
18	11:30-12:20	M W F	HEc 106	
19	11:30-12:20	M W F	HEc 201	

**ACCOUNTING (ACCT)**

<b>250-4</b>	<b>Accounting Fundamentals</b>				
1	3:30-4:20	MTuWTh	Cl 12	Tucker	
<b>251a-4</b>	<b>Accounting</b>			<b>Sophomore standing</b>	
1	8:30-9:20	MTu ThF	Cl 12	Swick	
2	10:30-11:20	MTu ThF	Cl 12	Swick	
<b>251b-4</b>	<b>Accounting</b>			<b>251a</b>	
1	10:30-11:20	MTu ThF	Cl 18	Page	
2	11:30-12:20	MTu ThF	Cl 12	Wright	
<b>251c-4</b>	<b>Accounting</b>			<b>251b</b>	
1	7:30-8:20	MTu ThF	Cl 12	Tucker	
2	9:30-10:20	MTu ThF	Cl 12	Tucker	
<b>309-2</b>	<b>Individual Income Tax</b>				
1	1:30-2:20	Tu Th	Cl 18	Richards	
<b>331-4</b>	<b>Tax Accounting</b>			<b>251c</b>	
1	9:30-10:20	MTu ThF	Cl 18	Richards	
<b>355-3</b>	<b>Governmental Accounting</b>			<b>251c</b>	
1	11:30-12:20	Tu ThF	Cl 18	Richards	
<b>453-4</b>	<b>Advanced Accounting</b>			<b>351b</b>	
1	8:30-9:20	MTu ThF	Cl 18	Wright	
<b>456-4</b>	<b>Auditing</b>			<b>331, 351b, 341</b>	
1	7:30-8:20	MTu ThF	Cl 18	Page	

**AGRICULTURAL INDUSTRIES (AG I)**

<b>114-4</b>	<b>Introduction to Agricultural Economics</b>				
1	8:30-9:20	MTuW F	Ag 155	Wills	
<b>310-4</b>	<b>General Agriculture</b>				
1	*9:30-10:20	MTuW F	Ag 255	Benton	
	9:30-11:20	Th	Ag 225		
<b>354-3</b>	<b>Agricultural Marketing</b>			<b>GSB 211a</b>	
1	8:30-9:20	M W F	Ag 225	Solverson	
<b>373-5</b>	<b>Farm Power and Machinery</b>			<b>GSD 108b</b>	
1	1:30-2:20	M W F	Ag 155	Paterson	
	12:30-2:20	Tu Th	T29 Quonset		
r2	1:30-2:20	M W F	Ag 155	Paterson	
	2:30-4:20	Tu Th	T29 Quonset		
<b>390-1 to 3</b>	<b>Special Studies in Agricultural Industries</b>			<b>Consent of department</b>	
1	To be arranged				
<b>417-4</b>	<b>Agricultural Development in Emerging Countries</b>			<b>GSB 211a</b>	
(June 26-July 21)					
1	9:30-11:20	MTuWThF	Ag 155	Keeper	
<b>520-1 to 6</b>	<b>Reading in Resource Economics</b>			<b>Consent of department</b>	
1	To be arranged				
<b>575-1 to 6</b>	<b>Research</b>			<b>Consent of department</b>	
1	To be arranged				
<b>599-1 to 9</b>	<b>Thesis</b>			<b>Consent of department</b>	
1	To be arranged				

**ANIMAL INDUSTRIES (ANI)**

<b>125-4</b>	<b>Elementary Poultry Production</b>				
1	7:30-8:20	MTuW	Ag 214	Goodman	
	7:30-9:20	Th	Ag 132	Goodman	
<b>319-3</b>	<b>Horses</b>			<b>Consent of instructor</b>	
1	8:30-9:20	TuW	Ag 116	Kammlade	
	8:30-10:20	M	Ag 114	Kammlade	
<b>390-1 to 3</b>	<b>Special Problems—Animal Industry</b>				
	To be arranged				
<b>415a-4</b>	<b>Animal Nutrition</b>			<b>315</b>	
1	10:30-11:20	MTuW	Ag 214	Hinners	
	10:30-12:20	Th	Ag 120	Hinners	
<b>520-1 to 6</b>	<b>Readings</b>				
	To be arranged				
<b>565-4</b>	<b>Advanced Swine Production</b>			<b>465</b>	
(June 26-July 21)					
1	7:30-9:20	MTuWThF	Ag 120	Burnside-Miller	
<b>575-1 to 6</b>	<b>Individual Research</b>				
	To be arranged				

\* June 19-August 11



## 18 ANIMAL INDUSTRIES (AN I)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
579-4	Animal Behavior			Consent of instructor
	(Cross-listed with Zoology 579)			
1	*7:30-8:20	MTuW F	LS 205	Waring
	8:30-11:20	W	LS 204	Waring
599-1 to 9	Thesis			
	To be arranged			

## ANTHROPOLOGY (ANTH)

304-3	The Origins of Civilization			
1	*10:30-11:20	MTuWTh	HEc 306	Riley
483-3 to 9	Individual Study in Anthropology			
	*To be arranged			
582-3 to 9	Problems in Archaeology			
	*To be arranged			
584-3 to 9	Problems in Cultural Anthropology			
	To be arranged			
585-3 to 9	Readings in Anthropology			
	*To be arranged			
595a-3	Field Methods in Ethnology			
	To be arranged			
596a-3	Field Methods in Archaeology			
	To be arranged			
597-3 to 9	Field Work in Anthropology			
	To be arranged			
599-1 to 9	Thesis			
	To be arranged			
600-1 to 16	Dissertation			
	To be arranged			

## APPLIED SCIENCE (APS)

300-5	University Physics IV				Physics 211c
1	9:30-10:20	TuW F	P 309		
	9:30-11:20	M Th	P 302		
307-5	Analytical Problems in Technology				Math 111b
1	10:30-11:20	MTuWThF	Tech A208		
419-3	Computer Applications				Math 410a or Guid 520a
1	To be arranged		Tech D110A		
430-2 to 8	Special Problems in Industry and Technology				Consent of coordinator
1	To be arranged				
450-4	Fundamentals of Reactive Systems				Chem 111c & Math 252b
1	10:30-11:20	M W F	Tech A120		
	1:30-3:30	W	Tech D14c		
501d-4	Materials Science				
1	To be arranged				
T523-3	Digital Simulation Techniques				ApS 420 or Engr 422
1	To be arranged		Tech D110a		
570-2 to 6	Special Investigations				Consent of coordinator
1	To be arranged				
599-1 to 9	Thesis				Consent of coordinator
1	To be arranged				

## ART (ART)

200-4	Studio Disciplines				
1	7:30-9:20	MTuW F	A 202		Breland Harris
225b-3	History of World Art				
1	10:30-11:20	M W F	M 203A		Lyman
325-4	Studio in Painting				
1	10:30-12:20	M W F	A 202		Bernstein Fink
332-4	Jewelry and Silversmithing				
1	8:30-11:20	Tu Th	A 11		Kington
351b-3	Oriental Art				
1	8:30-9:20	M W F	M 203a		Lyman
358-4	Prints				
1	7:30-9:20	MTuW F	A 211		Fink
393-4	Sculpture				
1	8:30-11:20	Tu Th	A 6		Sullivan
406-2 to 12	Studio in Painting				
1	To be arranged				Fink Bernstein

\* June 19-August 11

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
426-2 to 12	Studio in Pottery			
1	To be arranged			Vergette
436-2 to 12	Studio in Metal Construction			
1	To be arranged			Kington
466-2 to 12	Studio Methods in Art Education			
1	*7:30-9:20	Tu Th	Pull 105	Abrahamson
501-2 to 12	Seminar in Painting			
1	To be arranged			Breland & Harris
502-2 to 12	Seminar in Sculpture			
1	To be arranged			Sullivan
526-2 to 12	Research in Pottery			
1	To be arranged			Vergette
536-2 to 12	Research in Metal Construction			
1	To be arranged			Kington
560-2 to 12	Seminar in Art Education			
1	*10:30-11:20	M W F	Pull 105	Abrahamson
566-2 to 12	Research in Art Education			
1	*To be arranged			Abrahamson
571-4	Readings in 20th Century Art			
1	To be arranged			Lyman
599-2 to 12	Thesis			
1	*To be arranged			

## B O T A N Y (BOT)

300-3	Morphology of Non-Vascular Plants				GSA 201c
1	12:30-1:20	M W	LS 323	Kaeiser	
1	12:30-2:20	F	LS 307	Kaeiser	
2	12:30-1:20	M W	LS 323	Kaeiser	
2	12:30-2:20	Th	LS 307	Kaeiser	
301-3	Morphology of Vascular Plants				GSA 201c
1	9:30-10:20	W F	LS 323	Matten	
1	9:30-11:20	M	LS 307	Matten	
2	9:30-10:20	W F	LS 323	Matten	
2	9:30-11:20	Tu	LS 307	Matten	
320-5	Elements of Plant Physiology				GSA 201c
1	7:30-8:20	M W F	LS 323	Schmid	
1	7:30-9:20	Tu Th	LS 311	Schmid	
2	7:30-8:20	M W F	LS 323	Schmid	
2	9:30-11:20	Tu Th	LS 311	Schmid	
390-2 to 4	Readings in Botany				Botany major
1	To be arranged				
391-2 to 5	Special Problems in Botany				Botany major
1	To be arranged				
445-5	Ecology of Forests and Arable Lands				NSF summer student
					GSA 340 or Bot 341
1 <sup>1</sup>	*2:30-3:20	Tu Th	H26 a	Ashby	
	*12:30-5:00	M W	H26 a	Ashby	
2	*2:30-3:20	Tu Th	H26 a	Ashby	
	*To be arranged	S	H26 a	Ashby	
502-2	Recent Developments in Biological Sciences				NSF students
	(Cross-listed with Zoology)				
1	10:30-11:20	M W F	LS 205	Sharp	
551-4	Upland Flora				Botany 313
1	8:30-4:20	F	Herbarium	Mohlenbrock	
552-4	Aquatic Flora				Botany 313
					NSF summer students
1	8:30-4:20	W	LS 307	Tindall	
2 <sup>1</sup>	*7:30-10:20	M W F	H26 a		
570-2 to 5	Readings				Botany major
1	To be arranged				
580-1	Seminar				NSF summer students
1	10:30-11:20	Tu Th	LS 205	Sharp	
591-1 to 9	Research				Consent of advisory committee
1	To be arranged				
599-1 to 9	Thesis				Consent of advisory committee
1	To be arranged				
600-1 to 16	Dissertation				Consent of advisory committee
1	To be arranged				

## B U S I N E S S A D M I N I S T R A T I O N (BUS AD)

502-4	Business & Society				MBA student or consent of instructor
1	10:30-11:20	TuWThF	CL 326	Patrick	

\* June 19-August 11

<sup>1</sup> Two Saturday Field Trips

## 20 BUSINESS ADMINISTRATION (BUS AD)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
519-4	Seminar in Accounting			MBA student or consent of instructor
1	12:30-2:20	M W	Cl 25	
521-4	Business Conditions Analysis			MBA student or consent of instructor
1	8:30-10:20	M Th	Cl 326	Fenstermaker
530-4	Financial Management			MBA student or consent of instructor
1	8:30-10:20	Tu F	Cl 326	Winn
559-4	Seminar in Marketing			MBA student or consent of instructor
1	12:30-2:20	M W	Cl 326	Hoffman
590-4	Independent Study			MBA student or consent of instructor
1	To be arranged			Hindersman
598-4	Business Policies			MBA student or consent of instructor
1	12:30-2:20	Tu Th	Cl 326	Hunt
599-4 or 8	Thesis			
1	To be arranged			Hindersman

## CHEMISTRY (CHEM)

111a-5	General Inorganic Chemistry			Limited to those who have had no high school chemistry
1	9:30-10:20	M W F	Browne	
	9:30-10:20	Tu	P 204	
	7:30-9:20	M W	P 200	
2	9:30-10:20	M W F	Browne	
	9:30-10:20	Tu	P 204	
	7:30-9:20	Tu Th	P 200	
3	9:30-10:20	M W F	Browne	
	9:30-10:20	Th	P 204	
	12:30-2:20	Tu Th	P 200	
4	9:30-10:20	M W F	Browne	
	9:30-10:20	Th	P 204	
	10:30-12:20	Tu Th	P 200	
5	9:30-10:20	M W F	Browne	
	9:30-10:20	Th	P 204	
	10:30-12:20	Tu Th	P 206	
235-5	General Quantitative Analysis			111c and logarithms
1	10:30-11:20	M W F	P 111	
	7:30-10:20	Tu Th	P 103	
2	10:30-11:20	M W F	P 111	
	12:30-3:20	Tu Th	P 103	
T3	10:30-11:20	M W F	P 111	
	7:30-10:20	M W	P 103	
T4	10:30-11:20	M W F	P 111	
	12:30-3:20	M W	P 103	
305b-5	Organic Chemistry—Pre-professional			
1	11:30-12:20	M W F	Browne	
	12:30-3:20	Tu Th	P 205	
T2	11:30-12:20	M W F	Browne	
	12:30-3:20	M W	P 205	
350-4	Biological Chemistry			305b, 341c or GSA 101c with Chem 101c
1	3:30-4:20	M W F	Browne	
	8:30-11:20	Tu	P 205	
2	3:30-4:20	M W F	Browne	
	8:30-11:20	Tu	P 205	
432a-4	Instrumental Analytical Measurements			461b or consent of instructor
1	7:30-8:20	M W F	P 111	
	Lab to be arranged		P 103	
446-4	Qualitative Organic Analysis			305b or 341c
1	11:30-12:20	Tu Th	Browne	
	7:30-10:20	Tu Th	P 205 west	
460-5	Theoretical Chemistry			235 & 305b or 341c
1	9:30-10:20	M W F	P 111	
	7:30-10:20	Tu Th	P 104	
T2	9:30-10:20	M W F	P 111	
	10:30-1:20	Tu Th	P 104	
496a-2 to 6	Chemical Problems—Analytical			Consent of department
	To be arranged			
496b-2 to 6	Chemical Problems—Biochemistry			Consent of department
	To be arranged			



Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
496c-2 to 6	Chemical Problems—Inorganic			Consent of department
	To be arranged			
496d-2 to 6	Chemical Problems—Organic			Consent of department
	To be arranged			
496e-2 to 6	Chemical Problems—Physical			Consent of department
	To be arranged			
594a-3	Special Readings in Chemistry—Analytical			Consent of department
1	To be arranged			
594b-3	Special Readings in Chemistry—Biochemistry			Consent of department
1	To be arranged			
594c-3	Special Readings in Chemistry—Inorganic			Consent of department
1	To be arranged			
594d-3	Special Readings in Chemistry—Organic			Consent of department
1	To be arranged			
594e-3	Special Readings in Chemistry—Physical			Consent of department
1	To be arranged			
596a-3 to 9	Advanced Chemical Problems—Analytical			Consent of department
1	To be arranged			
596b-3 to 9	Advanced Chemical Problems—Biochemistry			Consent of department
1	To be arranged			
596c-3 to 9	Advanced Chemical Problems—Inorganic			Consent of department
1	To be arranged			
596d-3 to 9	Advanced Chemical Problems—Organic			Consent of department
1	To be arranged			
596e-3 to 9	Advanced Chemical Problems—Physical			Consent of department
1	To be arranged			
597a-3 to 9	Research and Thesis—Analytical			Consent of department
1	To be arranged			
597b-3 to 9	Research and Thesis—Biochemistry			Consent of department
1	To be arranged			
597c-3 to 9	Research and Thesis—Inorganic			Consent of department
1	To be arranged			
597d-3 to 9	Research and Thesis—Organic			Consent of department
1	To be arranged			
597e-3 to 9	Research and Thesis—Physical			Consent of department
1	To be arranged			
598a-3 to 12	Research Doctoral—Analytical			Consent of department
1	To be arranged			
598b-3 to 12	Research Doctoral—Biochemistry			Consent of department
1	To be arranged			
598c-3 to 12	Research Doctoral—Inorganic			Consent of department
1	To be arranged			
598d-3 to 12	Research Doctoral—Organic			Consent of department
1	To be arranged			
598e-3 to 12	Research Doctoral—Physical			Consent of department
1	To be arranged			
600a-3 to 12	Dissertation—Analytical			Consent of department
1	To be arranged			
600b-3 to 12	Dissertation—Biochemistry			Consent of department
	To be arranged			
600c-3 to 12	Dissertation—Inorganic			Consent of department
1	To be arranged			
600d-3 to 12	Dissertation—Organic			Consent of department
1	To be arranged			

## 22 CHEMISTRY (CHEM)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
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600e-3 to 12 1	Dissertation—Physical To be arranged			Consent of department
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## CLOTHING AND TEXTILES (C &amp; T)

233-3	Pattern Designing and Clothing Construction			127, 131, 135, or consent of instructor
1	11:30-1:20	Tu Th	HEc 310	Ridley
2	2:30-4:20	Tu Th	HEc 310	Ridley
327-3	Home Furnishings and Interiors			131 or consent of instructor
1	1:30-2:20	M W	HEc 304	Phillips
	12:30-2:20	F		
371-6	Field Experience			Consent of chairman
1	To be arranged		HEc 311h	Ridley Padgett
395-2 to 4	Special Problems			Consent of instructor
1	To be arranged		HEc 304	Phillips
432-4	Workshop: Advanced Tailoring			360 or consent of instructor
1	7:30-9:20	MTuWThF	HEc 310	Berry
	Plus extra hours to be arranged			
470-3	Interior Design Seminar			Consent of instructor
1	*10:30-11:20	MTu ThF	HEc 302	Phillips
481-2 to 4	Readings			Consent of instructor and chairman
1	*To be arranged		HEc 311	Padgett Phillips
572-2 to 4	Special Problems			Consent of instructor
1	*To be arranged		HEc 301	Padgett
599-5 to 9	Thesis			Consent of chairman
1	*To be arranged		HEc 311	Berry Padgett Phillips

## DESIGN (DES)

550-2 to 10	Field Study in Design			Consent of department
	To be arranged			
599-3 to 9	Thesis			Consent of department
	To be arranged			

## ECONOMICS (ECON)

214-3	Economics (Macro)			GSB 211a
1	10:30-11:20	MTu Th	L 161	Fryman
2	3:30-4:20	MTu Th	Wham 201	Fryman
215-3	Economics (Micro)			GSB 211a
1	10:30-11:20	M W F	Wham 308	Hand
2	2:30-3:20	M W F	Wham 201	Hand
301-1 to 6	Economic Readings			Consent of chairman
1	To be arranged			Layer
310-4	Labor Problems			214 & 215
1	8:30-9:20	MTu ThF	HEc 206	Kreider
GSB 311-3	Economic Development of U.S. (See General Studies Area B for schedule.)			GSB 101c or 211c
GSB 312-3	Comparative Economic Systems (See General Studies Area B for schedule.)			GSB 211c
315-4	Money & Banking, I			214
1	2:30-3:20	MTuWTh	Wham 206	Fryman
416-4	Money & Banking, II			315
1	1:30-2:20	TuWThF	HEc 206	Brucker
422-4	Introduction to Economic Development			214 & 215
1	8:30-9:20	TuWThF	Ag 166	Badre
429-4	International Economics			214 & 215
1	9:30-10:20	MTu ThF	HEc 206	Kreider
440-4	Intermediate Micro Theory			215
1	3:30-4:20	TuWThF	Wham 203	Brucker
441-4	Intermediate Macro Theory			214
1	10:30-11:20	MTuW F	L 171	Petro
490-4	Workshop: Economic Education			
	(August 14-24)			
	(Cross-listed with Secondary Education)			
1	8:30-11:20	MTuWThF	HEc 122	Martinsek
	1:30-3:20			Layer
501-1 to 5	Economic Readings			Consent of chairman
1	To be arranged			Layer

\* June 19-August 11

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Summer	Time			
541-4	National Income Theory			441
1	11:30-12:20	MTuW F	Cl 10	Petro
542-4	Price Theory			440
1	7:30-8:20	TuWThF	Cl 10	Badre
599-2 to 9	Thesis			
1	To be arranged			Layer
600-3 to 16	Doctoral Dissertation			
1	To be arranged			Layer

## EDUCATIONAL ADMINISTRATION AND SUPERVISION (EDAD)

355-4	Philosophy of Education			
1	8:30-9:20	MTuWTh	Wham 303	
2	9:30-10:20	MTuWTh	Wham 303	
3	10:30-11:20	MTuWTh	Wham 303	
4	11:20-12:30	MTuWTh	Wham 303	
424-4	School Administration		Consent of instructor	
1	*11:30-12:20	MTuWThF	Wham 305	Kaiser
431-4	History of Education in the United States			
1	*10:30-11:20	MTuWThF	Wham 328	
434-4	Administrators Workshop		Consent of instructor	
	(June 12-June 30)			
	1:30-4:20	MTuWThF	Wham 326	Ewing
456-4	School Supervision		Consent of instructor	
1	*8:30-9:20	MTuWThF	Wham 328	Sasse
460-4	Curriculum		Consent of instructor	
	(June 12-June 30)			
1	1:30-4:20	MTuWThF	Wham 328	Fishback
500-4	Research Methods		Guidance 422a or b or	
			consent of instructor	
1	*7:30-8:20	MTuWThF	Wham 328	Street
2	*12:30-1:20	MTuWThF	Wham 328	Street
502-4	Seminar in Comparative Education			
	(July 17-August 4)			
1	1:30-4:20	MTuWThF	Wham 328	Caldwell
503-4	Seminar in Philosophy of Education		Consent of instructor	
1	*11:30-12:20	MTuWThF	Wham 328	
504-4	Seminar in History of European Education			
1	*10:30-11:20	MTuWThF	Wham 305	McKenzie
506-4	Curriculum in Relation to American Culture		Consent of instructor	
	(June 19-July 14)			
1	*1:30-3:20	MTuWThF	Wham 305	Hall
533-4	School Buildings		Consent of instructor	
1	*10:30-11:20	MTuWThF	Wham 317	Sasse
534a-4	School Finance		Consent of instructor	
1	*9:30-10:20	MTuWThF	Wham 328	Kaiser
554-4	Contrasting Philosophies of Education		Consent of instructor	
1	*7:30-8:20	MTuWThF	Wham 305	
556-4	Seminar in Educational Supervision		Consent of instructor	
1	*9:30-10:20	MTuWThF	Wham 305	Bracewell
575a-4	Individual Research—Curriculum		Consent of instructor	
1	To be arranged			
575b-4	Individual Research—Supervision		Consent of instructor	
1	To be arranged			
575c-4	Individual Research—Buildings		Consent of instructor	
1	To be arranged			
575d-4	Individual Research—Finance		Consent of instructor	
1	To be arranged			
575e-4	Individual Research—School Law		Consent of instructor	
1	To be arranged			
575f-4	Individual Research—Comparative Education		Consent of instructor	
1	To be arranged			
575g-4	Individual Research—History of Education		Consent of instructor	
1	To be arranged			
575h-4	Individual Research—Philosophy of Education		Consent of instructor	
1	To be arranged			

\* June 19-August 11



Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
575j-4	Individual Research—Administration				Consent of standing
1	To be arranged				
575k-4	Individual Research—Elementary Education				Consent of instructor
1	To be arranged				
576a-4	Readings in Administration and Supervision				Advanced instructor
1	To be arranged				
589-4	General Graduate Seminar: Dewey's Social & Political Philosophy				
	(Cross-listed with Philosophy)				
1	*12:30-1:20	MTuWThF	HEc 211	McKenzie	
592-4	Doctoral Seminar in Cultural Foundations of Education				591
1	8:30-10:20	Tu Th	Wham 112	McKenzie	
596-5 to 9	Independent Investigation				Advanced standing
1	To be arranged				
597-1 to 3	Thesis				Advanced standing
1	To be arranged				
598-1 to 3	Thesis				Advanced standing
1	To be arranged				
599-1 to 3	Thesis				Advanced standing
1	To be arranged				
600-1 to 16	Dissertation				Advanced standing
1	To be arranged				

## ELEMENTARY EDUCATION (ELED)

100-3	Introduction to Elementary Education				
1	7:30-8:20	M W F	Wham 203	Mason	
101-2	Developing Reading and Learning Skills				
	(Cross-listed with Secondary Education)				
1	11:30-12:20	M W F	Wham 203	Berger	
314-4	Elementary School Methods				Guidance 305
1	*8:30-9:20	MTuWThF	Wham 206	Randolph	
2	11:30-12:20	MTuWTh	Wham 206	Randolph	
337-4	Reading in the Elementary School				314
1	9:30-10:20	MTuWTh	Wham 210	Ragsdale	
2	*10:30-11:20	MTuWThF	Wham 203	Brod	
351-4 to 16	Elementary Student Teaching		314, 337 & Guid	305	
1	To be arranged (General)				
2	To be arranged (Art)				
3	To be arranged (Educable Mentally Handicapped)				
4	To be arranged (Music)				
5	To be arranged (Physical Education)				
6	To be arranged (Physically Handicapped)				
7	To be arranged (Speech Correction)				
375-2 to 3	Readings in Elementary Education				Consent of department
1	To be arranged				
401-2	Problems in Public School Reading				Teaching experience
	(Not open to students who have had 437 or 505)				
	(June 20-June 30)				
1	12:30-2:20	MTuWThF	Wham 210	Ragsdale	
413-4	Children's Literature				
1	*1:30-2:20	MTuWThF	Wham 203		
415-4	Improvement of Instruction in Arithmetic				Math 310
1	10:30-11:20	MTuWThF	Wham 206	Paige	
433-4	Workshop in Kindergarten-Primary Education				
	(June 20-July 14)				
1	9:30-11:20	MTuWThF	Wham 201		
435-4	Workshop in Elementary School Foreign Language Instruction				
	(June 19-July 14)				
	(Cross-listed with Foreign Language)				
1	7:30-12:00	MTuWThF	Wh 212	Peacock	
441-4	Teaching Elementary Science				314
	(July 17-August 11)				
1	12:30-2:20	MTuWThF	Wham 210	Newport	
442-4	Science for the Elementary Teacher				314
1	*7:30-8:20	MTuWTh	Wham 210	Newport	
503-9	NDEA Institute in Reading				
	(June 26-July 26)				
	(Institute students only)				
1	8:30-4:30	MTuWThF	Wham 205	Hill	
505-4	Improvement of Reading Instruction				
1	*8:30-9:20	MTuWThF	Wham 203	Brod	
507-2 to 4	Readings in Readings				Consent of instructor
1	To be arranged				Ragsdale

\* June 19-August 11

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
515-4	Special Problems in Teaching Arithmetic			415
1	*8:30-9:20	MTuWThF	Wham 212	Paige
518-2 <sup>1</sup>	Supervision of Student Teachers			
	(Cross-listed with Secondary Education)			
	(June 20-July 14)			
1	9:30-10:20	MTuWThF	Wham 317	Casey
	(July 17-August 11)			
2	9:30-10:20	MTuWThF	Wham 317	Casey
537-4	Kindergarten-Primary Reading			
1	*12:30-1:20	MTuWThF	Wham 203	
541-4	Selected Teaching and Curriculum Problems in Elementary Science			441 or 442
1	*8:30-9:20	MTuWThF	Wham 305	Cummins
542-4	Language Arts in Elementary School			
1	*10:30-11:20	MTuWThF	Wham 210	Ragsdale
543-4	Teaching Social Studies in Elementary School			
1	*7:30-8:20	MTuWThF	Wham 206	Randolph
557-4	The Elementary Principalship			
1	*9:30-10:20	MTuWThF	Wham 212	Bradfield
561-4	Elementary School Curriculum			
1	*9:30-10:20	MTuWThF	Wham 203	Lee
575a-4	Individual Research—Curriculum			Lee
1	To be arranged			
575b-4	Individual Research—Supervision			Bradfield
1	To be arranged			
575c-4	Individual Research—Language Arts			Ragsdale
1	To be arranged			
575d-4	Individual Research—Science			Newport
1	To be arranged			
575e-4	Individual Research—Reading			
1	To be arranged			
575f-4	Individual Research—Social Studies			Randolph
1	To be arranged			
575g-4	Individual Research—Problems in Elementary Education			
1	To be arranged			
575h-4	Individual Research—Arithmetic			Paige
1	To be arranged			
575j-4	Individual Research—Problems in Kindergarten-Primary			Baker
1	To be arranged			
596-5 to 9	Independent Investigation			
1	To be arranged			
597-1 to 3	Thesis			
1	To be arranged			
598-1 to 3	Thesis			
1	To be arranged			
599-1 to 3	Thesis			
1	To be arranged			
600-2 to 16	Dissertation			
1	To be arranged			

## ENGINEERING (ENGR)

222-3	Digital Computer Programming for Engineers			Math 114b
1	8:30-9:20	Tu Th	Tech A222	
	11:30-12:20	M W	Wham B24	
2	8:30-9:20	Tu Th	Tech A222	
	11:30-12:20	Tu Th	Wham B24	
3	8:30-9:20	Tu Th	Tech A222	
	5:00-5:50 pm	M W	Wham B24	
4	8:30-9:20	Tu Th	Tech A222	
	5:00-5:50 pm	Tu Th	Wham B24	
260c-3	Analytical Mechanics			260b
1	1:30-2:20	M W F	Tech A120	
300c-3	Thermodynamics			300b
1	12:30-1:20	M W F	Tech A120	
311c-3	Engineering Materials			311b
1	1:30-2:20	M F	Tech A122	
	1:30-4:20	W	Tech D14	
313a-3	Fluid Mechanics			260c
	(June 19-July 21)			
1	7:30-9:20	M W F	Tech A220	
313b-3	Fluid Mechanics			313a
	(July 24-September 1)			
1	7:30-9:20	M W F	Tech A220	

<sup>1</sup> Courses listed with Secondary Education

\* June 19-August 11

## 26 ENGINEERING (ENGR)

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Summer	Time			
GSB 361-3	Engineering Economics (See General Studies Area B for schedule)			Junior standing
412a-3	Engineering Practice			
1	9:30-10:20	M W F	Tech A222	
430-2 to 8	Special Problems in Industry and Technology			Consent of coordinator
1	To be arranged			
435b-3	Electronics			435a
1	7:30-8:20	M W	Tech A222	
	7:30-10:20	Th	Tech D106	
450-4	Fundamentals of Reactive Reactive Systems			Chem 111c
	(Cross-listed with Applied Science)			& Math 252b
1	10:30-11:20	M W F	Tech A120	
	1:30-3:30	W	Tech D14c	
459-4	Advanced Engineering Economy			GSB 361
1	11:30-12:20	MTu ThF	Tech A222	
513a-3	Fluid Mechanics—Viscous Fluids			413a
1	To be arranged			
517b-4	Analysis and Design of Engineering Systems			
1	8:30-9:20	M W F	Tech A120	
530b-3	Separation Processes and Equilibrium Processes			530a
1	To be arranged			
570-2 to 6	Special Investigations			
1	To be arranged			
580-2	Seminar			
1	To be arranged			
599-1 to 9	Thesis			
1	To be arranged			

## ENGINEERING TECHNOLOGY (ET)

304a-3	Electrical Circuits			ApS 307 or equivalent
1	12:30-2:20	M W F	Tech D104	
318a-3	Hydraulics			260c
	(June 19-July 21)			
1	12:30-2:20	M W F	Tech D114a	
318b-3	Hydraulics			318a
	(July 24-September 1)			
1	12:30-2:20	M W F	Tech D114a	
337a-3	Manufacturing Processes			
	(June 19-July 21)			
	(Cross-listed with Technical and Industrial Education)			
1	10:30-11:20	MTuWTh	Tech A222	
	9:30-12:20	F	Tech D14b	
337b-3	Manufacturing Processes			
	(July 21-September 1)			
	(Cross-listed with Technical and Industrial Education)			
1	10:30-11:20	MTuWTh	Tech A222	
	9:30-12:20	F	Tech D14b	
342a-3	Engineering Technology Design			Engr 300a, 311b
1	To be arranged			
GSB 361-3	Engineering Economics (See General Studies Area B for schedule)			Junior standing
363a-4	Surveying			Tech 101a, Math 111b
1	12:30-4:20	Tu Th	Tech D128	
363b-4	Surveying			363a
1	12:30-4:20	Tu Th	Tech D130	
430-2 to 8	Special Problems in Industry and Technology			
1	To be arranged			
465a-4 *	Industrial Safety			Junior standing
	(Cross-listed with Technical and Industrial Education)			
1	7:30-8:20	MTuWThF	Tech A120	
507-4	Industrial Quality Control			
1	2:30-3:20	MTu ThF	Tech A222	
570-2 to 8	Special Investigations			
1	To be arranged			
580-2	Seminar			
1	To be arranged			
599-1 to 9	Thesis			
1	To be arranged			

## ENGLISH (ENG)

300a-3	Grammatical Analysis			
1	7:30-8:20	M W F	M 203B	

\* June 19-August 11



Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
2	12:30–1:20	M W F	M 203B	
300b–3	Grammatical Analysis			
1	10:30–11:20	M W F	M 209	
2	1:30–2:20	MTu Th	M 201	
302a–4	English Literature to 1550			
1	8:30–9:20	MTu ThF	M 203B	
302b–4	English Literature 1550 to 1750			
1	7:30–8:20	MTu ThF	HEc 206	
2	1:30–2:20	MTu ThF	M 102A	
302c–4	English Literature after 1750			
1	9:30–10:20	MTu ThF	M 203B	
309a–4	American Literature to 1860			
1	8:30–9:20	MTuW F	M 209	
2	2:30–3:20	MTu ThF	HEc 102	
390–3	Advanced Composition			
1	11:30–12:20	M W F	M 203B	
2	3:30–4:20	M W F	HEc 106	
400–4	Structure of English			
1	*3:30–4:20	MTuWThF	HEc 102	
402–4	Old English Literature in Translation			
1	9:30–10:20	MTu ThF	HEc 303	
412a–4	English Nondramatic Literature—16th Century			
1	8:30–9:20	MTu ThF	M 102A	
420a–4	American Poetry to 1900			
1	*12:30–1:20	MTu ThF	HEc 118	
421b–4	English Poetry—Later Romantics			
1	10:30–11:20	MTu ThF	HEc 118	
454b–4	Victorian Novel			
1	7:30–8:20	MTu ThF	M 307	
454c–4	20th Century Fiction			
1	12:30–1:20	MTu ThF	HEc 106	
458a–4	American Fiction			
1	*8:30–9:20	MTuWThF	M 305	
460d–4	Modern British Drama			
1	11:30–12:20	MTu ThF	HEc 206	
464–4	Modern Continental Drama			
1	11:30–12:20	MTu ThF	HEc 118	
468–4	American Drama			
1	7:30–8:20	MTu ThF	HEc 102	
471b–4	Shakespeare—1600 and Later			
1	1:30–2:20	MTu ThF	HEc 118	
497c–4	Senior Honors Readings			
1	<sup>1</sup> To be arranged			
499–2 to 4	Readings in English			
1	<sup>1</sup> To be arranged			
500–2	Materials and Methods of Research in English			
1	7:30–8:20	Tu Th	M 203B	
508–4	Studies in Chaucer			
1	10:30–12:20	Tu Th	HEc 106	
514–4	Studies in 18th Century—Johnson and Boswell			
1	10:30–12:20	Tu Th	Comm 214	
518–4	Studies in English Literature, 1885–1914—Conrad			
1	1:30–3:20	M	HEc 202	
		W	HEc 118	
534–4	Studies in Early 19th Century American Writers—Hawthorne			
1	*1:30–3:20	Tu Th	HEc 106	
537–4	Studies in 20th Century American Writers—Frost			
1	*9:30–10:20	MTuWThF	M 102A	
569–4	Seminar in Special Problems of English as a Foreign Language			
1	9:30–11:20	M Th	M 206	Parish
581a–4	Problems in High School English			
1	<sup>2</sup> 1:30–3:20	M W	HEc 104	Evans
581b–4	Problems in High School English			
1	<sup>3</sup> 1:30–3:20	Tu Th	HEc 104	Evans
597–2 to 4	Readings in Linguistics			
1	To be arranged			
598a–1 to 3	Review of English and American Literature			
1	To be arranged			
598b–1 to 3	Review of English and American Literature			
1	To be arranged			
600–1 to 16	Dissertation			
1	To be arranged			

\* June 19–August 11

<sup>1</sup> Open to English majors only. Consent of department required.

<sup>2</sup> 8 week course. Open to high school teachers only.

<sup>3</sup> 8 week course. Open to junior high school teachers only.

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
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## FINANCE

301-1 to 6	Readings in Finance			
1	Arranged with instructor			Fenstermaker
320-5	Corporation Finance		Acct 251c, Econ 215	
1	1:30-2:20	MTuWThF	L 201	Buboltz
324-4	Security Analysis			Finance 323
1	12:30-1:20	MTuWTh	L 221	Buboltz
371-4	Business Law I			
1	7:30-8:20	MTuWTh	HEc 106	Waters
421-4	Management of Business Finance			Finance 320
1	10:30-11:20	MTuWTh	Tech A111	Winn
473-4	Business in Its Legal Environment			Senior standing
1	9:30-10:20	MTuWTh	M 209	Waters

## FOOD AND NUTRITION (F &amp; N)

100-3	Fundamentals of Nutrition			
1	7:30-8:20	M W F	HEc 303	Koenecke
247c-2	The School Lunch Program (Workshop)			
	June 12-16			
1	9:00-4:00	MTuWThF	HEc 119	Becker
321-3	Food and Nutrition Demonstration			256
1	8:30-11:20	Tu Th	HEc 101	Koenecke
335-4	Meal Management			256
1	1:30-4:20	Tu Th	HEc 105 & 107	Becker
371-6	Field Experience			
1	To be arranged			Becker
420-3	Recent Developments in Nutrition			320
1	*7:30-8:20	MTu ThF	HEc 212	
421-3	Recent Trends in Food			320
1	*12:30-1:20	MTu ThF	HEc 203	
572-2 to 8	Special Problems			500
1	*To be arranged			
599-5 to 9	Thesis			
1	*To be arranged			

## FOREIGN LANGUAGES (FL)

## French (Fr)

123c-1	French Conversation			Concurrent enrollment in GSD 123c
1	11:30-12:20	Th	Wh 113	
161-0	French for Graduate Students			
1	9:30-10:20	M W F	M 202	
T2	9:30-10:20	M W F	Wh 203	
201a-3	Intermediate French			GSD 123c or 2 yrs H.S.
1	8:30-9:20	M W F	M 308	
201c-3	Intermediate French			201b or 3 yrs H.S.
1	10:30-11:20	M W F		
352-5	French Conversation & Phonetics			
1	12:30-1:20	MTuWThF	HEc 104	
400-4	French Literature Between 1870 & 1914			313
1	To be arranged			
435-4	Workshop in Elementary School Foreign Language			
	(June 19-July 14)			
	(Cross-listed with Elementary Education)			
1	7:30-11:30	MTuWThF	HEc 104	Peacock
501-2 to 6	Seminar on Selected French Authors			
1	10:30-	Tu Th	HEc 201	
543-2 to 6	Research Problems			
	To be arranged			
599-3 to 9	Thesis			
	To be arranged			

## German (Ger)

126c-1	German Conversation			Concurrent enrollment in GSD 126c
1	9:30-10:20	Tu	M 202	
T2	10:30-11:20	Tu	Wh 212	
161-0	German for Graduate Students			
1	7:30-8:20	M W F	M 202	
T2	1:30-2:20	M W F	M 202	

\* June 19-August 11

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
201a-3, 201b-3, 201c-3	Intermediate German			GSD 126c or 2 yrs H.S.
(Must be taken as a unit for 9 hours)				
1	8:30-10:20	MTuWThF	M 303	
315-4	From Rationalism to Realism			
1	9:30-10:20	MTu ThF	Wham 301a	
403-3	German Ballads and Lyrics			
1	10:30-11:20	M W F	Wh 203	
501-2	Seminar on Contemporary German Authors			
1	8:30-9:20	M W	M 202	
506-2	German Romanticism I			
(Students must register for both 506 and 507)				
1	11:30-12:30	MTu ThF	M 202	
507-2	German Romanticism II			
(506 & 507 taught as unit)				
1	11:30-12:30	MTu ThF	M 202	
543-2 to 6	Research Problems			
1	To be arranged			
599-3 to 9	Thesis			
1	To be arranged			

## Russian (Russ)

201a-3, 201b-3, 201c-3 *	Intermediate Russian			GSD 136-9 or 2 yrs H.S.
(Must be taken as a unit for 9 hours)				
1	To be arranged			
220a,b,c-6 *	Russian Conversation			
(Must be taken as a unit for 6 hours)				
1	To be arranged			
411a-4, 411b-4 *	Introduction to Russian Classical Literature			
1	To be arranged			
414-3	Russian Poetry from Zhukovsky to 1920			
1	10:30-11:20	M W F	Wh 207	
425-3 *	Soviet Literature Since 1917			
1	To be arranged			
452-4 *	Advanced Composition and Conversation			
1	To be arranged			

## Spanish (Span)

161-0	Spanish for Graduate Students			
1	12:30	M W F	Wh 203	
201c-3	Intermediate Spanish			201b or 3 yrs H.S.
1	9:30	M W F	M 308	
316-3	Civilizacion Espanola			
1	8:30	M W F	Wh 203	
360-3	Travel Study Course in Mexico			
(June 12-August 11)				
404a-3	Spanish Literature of the 20th Century			
1	10:30	M W	M 202	
		F	M 201	
501-2	Seminar on Selected Spanish Authors			
1	11:30	Tu Th	Wh 203	
543-2 to 6	Research Problems			
	To be arranged			
599-2 to 6	Thesis			
	To be arranged			

## FORESTRY (FOR)

104-3	Introduction to Forestry				
1	7:30-8:20	MTu	Ag 155	Hosley	
	7:30-9:20	Th	Ag 155		
360-4	Farm Forestry				
1	10:30-11:20	M W F	Ag 187	Richmond	
	10:30-12:20	Tu	Ag 187		
390-1 to 6	Special Problems in Forestry			Consent of instructor	
1	To be arranged			Ag 190	
520a-1 to 6	Readings in Forestry			Consent of instructor	
	To be arranged			Ag 190	
520b-1 to 6	Readings in Resource Economics			Consent of instructor	
	To be arranged			Ag 190	Beazley
575-1 to 6	Research			Consent of instructor	
	To be arranged			Ag 190	
599-1 to 6	Thesis			Consent of instructor	
	To be arranged			Ag 190	

\* Part of the Russian Study Tour Abroad.



## 30 GEOGRAPHY (GEOG)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
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## GEOGRAPHY (GEOG)

302-4	Introduction to Physical Geography			GSB 101a
1	*10:30-11:20	MTuWThF	Ag 144	
304-4	Introduction to Economic Geography			GSB 101a
1	9:30-10:20	MTuWTh	Ag 144	Krause
306-4	Introduction to Cultural Geography			GSB 101a
1	10:30-11:20	MTuWTh	Ag 150	Eggert
324-4	Restoration and Conservation of Natural Resources			GSB 101a
1	*8:30-9:20	MTuWThF	Ag 144	
402c-3	Advanced Physical Geography (NDEA Institute)			Institute status
1	*8:30-12:00		Wham 228	
	1:30-3:00	MTuWThF		
404a-4	Advanced Economic Geography			304 or consent
1	11:30-12:20	MTuWTh	Ag 144	Krause
404c-3	Advanced Economic Geography (NDEA Institute)			Institute status
1	*8:30-12:00		Wham 228	
	1:30-3:00	MTuWThF		
406c-3	Advanced Economic Geography (NDEA Institute)			Institute status
1	*8:30-12:00		Wham 228	
	1:30-3:00	MTuWThF		
440-2 to 6	Readings for Majors			Consent of department
1	To be arranged			
490a-2	Tutorial			Senior major, consent of department
1	To be arranged			
490d-3	Tutorial in Geography (NDEA Institute)			Institute status
1	*8:30-12:00		Wham 228	
	1:30-3:00	MTuWThF		
515-4	Field Course			Consent of department
1	To be arranged			
521-4	Seminar in Economic Geography			Consent of department
1	To be arranged			
530-2 to 6	Independent Study in Geography			Consent of department
1	To be arranged			
540a-2 to 6	Research in Physical Geography			Consent of department
1	To be arranged			
540b-2 to 6	Research in Economic Geography			Consent of department
1	To be arranged			
540c-2 to 6	Research in Regional Geography			Consent of department
1	To be arranged			
540d-2 to 6	Research in Cultural Geography			Consent of department
1	To be arranged			
599-3 to 9	Thesis			Consent of department
1	To be arranged			
600-2 to 16	Dissertation			Consent of department
1	To be arranged			

## GEOLOGY (GEOL)

440-1 to 4	Independent Study			
	To be arranged			
450-9	Field Geology			Consent of instructor
	To be arranged		Field Camp	Sawatzky
450b-3	Advanced Field Geology			Consent of instructor
	To be arranged		Field Camp	Sawatzky
540-4	Advanced Studies—Physiographic Provinces			Consent of instructor
1	11:30-12:20	M W	Ag 174	Bel
	11:30-1:20	Tu Th	Ag 174	
541-1 to 4	Research			
	To be arranged			
599-1 to 9	Thesis			
	To be arranged			

\* June 19-August 11

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
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## GOVERNMENT (GOVT)

231-5	American National Government			
1	9:30-10:20	MTuWThF	L 131	
232-5	State and Local Government			
1	11:30-12:20	MTuWThF	L 201	
300-4	American Government			
1	10:30-11:20	MTu ThF	L 121	
321-1 to 6	Readings			
1	To be arranged			
330-2	Illinois Government			
1	8:30-9:20	Tu Th	Wham 326	Kenney
398-4	Government and Law			
1	11:30-12:20	MTuWTh	M 102A	Wasby
406-4	American Chief Executive			
1	8:30-9:20	MTu ThF	L 131	Nelson
455-4	Governments of Western Europe			
1	7:30-8:20	MTu ThF	L 131	Kamarasy
467-4	Municipal Government and Administration			
1	9:30-10:20	MTu ThF	M 215	Baker
472-4	International Organization			
1	10:30-11:20	MTuWTh	Wham 301b	Abbass
475a-4	International Law			
1	8:30-9:20	MTuWTh	Wham 301b	Jacobini
480-4	Pacific and Far East			
1	11:30-12:20	MTuWTh	Wham 301b	Chou
499-4	Scope and Method of Government			
1	7:30-8:20	MTu ThF	Wham 301b	Kenney
501-4	Seminar—Contemporary Legislation			
1	1:30-3:20	M W	Wham 301b	Wasby
517-4	Seminar—Political Theory			
1	9:30-11:20	Tu Th	Wham 307	Garner
520-4	Seminar—American Foreign Policy			
1	1:30-3:20	Tu Th	Wham 301b	Chou
521-1 to 6	Readings			
1	To be arranged			
530-1 to 12	Internship in Public Affairs			
1	To be arranged			
595-1 to 12	Individual Research			
1	To be arranged			
599-1 to 9	Thesis			
1	To be arranged			
600-1 to 16	Dissertation			
1	To be arranged			

GUIDANCE AND EDUCATIONAL  
PSYCHOLOGY (GUID & ED PSYC)

305-4	Educational Psychology			GSB 201c
1	8:30-9:20	TuWThF	Wham 302	Darr
2	10:30-11:20	TuWThF	Wham 302	Darr
3	2:30-3:20	TuWThF	Wham 302	Darr
412-4	Mental Hygiene			
	*12:30-1:20	MTuWThF	Wham 302	Yates
422a-4	Educational Measurement and Statistics—Introduction			305
	*7:30-8:20	MTuWThF	Wham 302	Fulton
422b-4	Educational Measurement and Statistics—Educational			305
	*11:30-12:20	MTuWThF	Wham 302	Beggs
422c-4	Educational Measurement and Statistics—Diagnosis			422a,b
	*3:30-4:20	MTuWThF	Wham 302	Beggs
442-4	Basic Principles of Guidance			305
	*11:30-12:20	MTuWThF	Wham 308	Fulton
515-4	Psychological Aspects of Education			
	*8:30-9:20	MTuWThF	Wham 301A	Sulzer
536a-4	Individual Measurement and Appraisal			Consent of instructor
1	*To be arranged			Parker
2	*To be arranged			Amble
537a-4	Counseling Theory & Practice			442
1	*1:30-3:20	MTuWThF	Wham 317	Meek
537a-4	Counseling Theory & Practice			Consent of instructor
2	*To be arranged			
541-4	Occupational Information			442
	(Cross-listed with Technical and Industrial Education)			
	*11:30-12:20	MTuWThF	Ag 214	Gallington

\* June 19-August 11

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
543-4	Guidance Through Groups			442
	*11:30-12:20	MTuWThF	Wham 317	Phelps
545j-4	Seminar: Organization and Administration			537a
	*To be arranged			Phelps
545m-4	Seminar: Doctoral Seminar			590
	*8:30-10:20	M W	Wham 112	Cody
562a-4	Human Development in Education—Children			
	*9:30-10:20	MTuWThF	Wham 302	Jordan
562b-4	Human Development in Education—Adolescents			
	*9:30-10:20	MTuWThF	M 210	Mayer
575a-4	Practicum in Counseling—General			537a
	*To be arranged			Meek
575b-2	Practicum in Counseling—Elementary			537a
	*To be arranged			Yates
575c-2	Practicum in Counseling—Secondary			537a
	*To be arranged			Yates
575d-1 to 12	Practicum in Counseling—Rehabilitation			
	*To be arranged			
596	Individual Research			
	*To be arranged			
599	Thesis			
	*To be arranged			
600	Dissertation			
	*To be arranged			

## HEALTH EDUCATION (HED)

300-3	Communicable Diseases			
1	11:30-12:20	MTuWTh	Arena 121	Rohrer
301-4	Health Education Concepts Advanced			
1	11:30-12:20	MTuWTh	Tech A322	Vincent
302S-4	Driver Education and Training			
1	7:30-8:20	MTuWTh	Comm 148	Ritzel
305-4	Principles and Foundations of Health Education			
1	12:30-1:20	MTuWTh	Arena 121	Phillips
312-4	Emotional Health			
1	11:30-12:20	MTuWTh	Tech A422	Casey
323S-4	Methods and Materials in Safety Education			
1	12:30-1:20	MTuWTh	Tech A322	Ritzel
334s-4	First Aid			
1	8:30-9:20	MTuWTh	Arena 119	Harris
2	7:30-8:20	MTuWTh	Arena 119	Smelser
3	9:30-10:20	MTuWTh	Arena 119	Bridges
4	10:30-11:20	MTuWTh	Arena 119	Smelser
350-4	Health Education Methods and Materials for Elementary Teachers			
1	10:30-11:20	MTuWTh	Arena 121	Phillips
460-4	School Health Programs			
1	*10:30-11:20	MTuWTh	Tech D131	Casey
461-4	Workshop in Health Education			
	(June 19-July 14)			
1	1:20-4:40	MTuWThF	Arena 119	Richardson
463-1 to 4	Workshop in Safety Education			
	(July 17-August 11)			
1	1:20-4:40	MTuWThF	Arena 119	Bridges
471-4	Organization, Administration & Curriculum in School Health			
1	*7:30-8:20	MTuWThF	Arena 121	LeFevre
475s-3	Traffic Law Enforcement and Planning			
1	9:30-10:20	MTuWThF	T85	Aaron
T491-4	Health Teaching Methods Advanced			
1	*8:30-9:20	MTuWThF	Arena 123	Casey
500-4	Community Organization for Health Education			
1	*7:30-8:20	MTuWThF	Tech A422	Grissom
511-5	Practicum in Health Education Workshop			
	(June 19-July 21)			
1	11:30-12:20	MTuWThF	To be arranged	Richardson
520-4	Special Projects			
1	*To be arranged			Boydston
525s-4	Organization, Administration Supervision of Safety Education			
	(July 17-August 4)			
1	1:00-5:00	MTuWThF	T85	Aaron
530s-4	Problems and Research in Accident Prevention			
1	*10:30-11:20	MTuWThF	T85	Aaron
533a-4	Human Conservation			
1	*8:30-9:20	MTuWThF	Arena 121	Richardson Grissom

\* June 19-August 11



Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
533c-4	<b>Human Conservation</b>			
1	*9:30-10:20	MTuWThF	Arena 121	Richardson Grissom
597-1	<b>Seminar</b>			
	*To be arranged			Boydston
600-1	<b>Dissertation</b>			
	*To be arranged			Boydston

## HIGHER EDUCATION (HIED)

510-4	<b>Higher Education in the U.S.</b>			
1	*8:30-9:20	MTuWThF	Wham 137	Brunner
513-4	<b>Organization and Administration in Higher Education</b>			
1	*9:30-10:20	MTuWThF	Wham 137	Robinson
516-4	<b>The College Student &amp; College Culture</b>			
(July 3-14)				
1	1:00-4:20	MTuWThF	Wham 212	Robinson
518-4	<b>The College Teacher and College Teaching</b>			
1	*7:30-8:20	MTuWThF	Wham 137	Dibden
522-2	<b>Readings in Higher Education</b>			Consent of instructor
1	*To be arranged			
523a-1 to 3	<b>Internship in Higher Education—College Teaching</b>			Consent of instructor
1	*To be arranged			Brunner
523b-1 to 3	<b>Internship in Higher Education—College Student Personnel</b>			Consent of instructor
1	*To be arranged			Robinson
523c-1 to 3	<b>Internship in Higher Education—College Administration</b>			Consent of instructor
1	*To be arranged			Dibden
524-2	<b>Individual Study</b>			Consent of instructor
1	*To be arranged			
535h-2	<b>Seminar—Administration of Admissions and Records</b>			
1	*To be arranged			McGrath
545s-3	<b>Seminar—Law, Legislatures and Higher Education</b>			
1	*To be arranged			Chambers
545t-3	<b>Seminar—Aesthetics and Higher Education</b>			
(June 19-30)				
1	1:00-3:40	MTuWThF	Wham 212	Dibden
565	<b>The Community-Junior College</b>			
(July 17-28)				
1	1:00-4:20	MTuWThF	Wham 212	Brunner
578-4	<b>Economic Aspects of Higher Education</b>			
1	*10:30-11:20	MTuWThF	Wham 137	Chambers
589-4	<b>Advanced Research</b>			Consent of instructor
1	*To be arranged			Dibden
600-2 to 8	<b>Dissertation</b>			Consent of instructor
1	*To be arranged			

## HISTORY (HIST)

322b-4	<b>English History, 1603-1815</b>			
1	8:30-9:20	MTu ThF	M 102	Cherry
330-3	<b>The Revolution and the Constitution</b>			
1	11:30-12:20	M W F	M 102	Ammon and Fladeland
365-4	<b>History of Chinese Civilization</b>			
1	7:30-8:20	MTu ThF	M102	Kuo
372b-3	<b>History of Russia (since 1905)</b>			
1	9:30-10:20	Tu ThF	M 207	O'Day
410-3 to 9	<b>Special Readings in History</b>			Consent of the department
1	To be arranged			
411a-3	<b>Social and Intellectual History of the United States (to 1830)</b>			
1	*10:30-11:20	MTu ThF	M 102	Adams
417c-3	<b>English Culture in the Age of Colonization</b>			
1	9:30-10:20	M W F	M 102	Cherry
435b-3	<b>Advanced American History (1900-1929)</b>			
1	1:30-2:20	M W F	M 102	
440a-3	<b>History of American Diplomacy (to 1913)</b>			
1	8:30-9:20	M W F	M 207	Pitkin
452-3	<b>Historical Research and Thesis Writing</b>			Junior and senior History majors only
1	2:30-3:20	Tu ThF	M 202	
2	11:30-12:20	TuW F	M 207	O'Day

\* June 19-August 11

## 34 HISTORY (HIST)

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
470-3	Argentina, Brazil and Chile				
1		10:30-11:20	Tu ThF	M 207	Gold
500a-4	Seminar—American History				Graduate students in History
1		2:30-4:20	M W	M 202	Ammon and Fladeland
510-2 to 5	Readings in History				Consent of department
	To be arranged				
515-3	Current United States History and Problems				Graduate students in History
1		12:30-1:45	Tu Th	M 102	Pitkin
575a-3	Studies in Latin-American History				Graduate students in History
1		10:30-11:20	Tu ThF	M 202	Gold
599-1 to 9	Thesis				
1		To be arranged			

## HOME AND FAMILY (H &amp; F)

227-3	Family Living				
1		11:30-12:20	M W F	HEc 203	Carpenter
237-3	Child Development				
1		1:30-2:20	M W F	HEc 203	Zunich
300-3	Home Economics for Men				
1		8:30-9:20	M W F	HEc 203	
331-3	Home Management Lectures				
1		2:30-3:20	M W F	HEc 5	
332-4	Home Management Residence				227, 331, F & N 335
1		To be arranged			Home Management Apartment
341-4	Consumer Problems				
1		7:30-8:20	MTu ThF	HEc 203	
407-2	Workshop: Economically Deprived Child				
(June 19-30)					
1		7:30-9:20	MTuWThF	HEc 120	Zunich
407-2	Workshop: Problems of Teaching Family Life				
(June 19-30)					
2		9:30-11:20	MTuWThF	HEc 120	Carpenter
407-2	Workshop: Methods and Materials in Home Management				
(July 10-21)					
3		7:30-9:20	MTuWThF	HEc 5	Johnston
407-2	Workshop: New Insights into Mate Selection				
(July 24-August 4)					
4		7:30-9:20	MTuWThF	HEc 120	Carpenter
456-4	Infant Development				237 or Psychology 301 or equivalent
(July 17-August 11)					
1		9:30-10:20	MTuWThF	HEc 116b	Zunich
471-2 to 4	Field Experience				Consent of instructor and chairman
1		To be arranged		HEc 116c	Zunich
481-2 to 4	Readings				Consent of instructor and chairman
1		To be arranged		HEc 116f	Carpenter
					Johnston
					Zunich
566-4	Interpersonal Relationships Within the Family				227 or GSB 341, 237, 331
1		*12:30-1:20	MTuWThF	HEc 116b	Carpenter
572-2 to 6	Special Problems				Consent of instructor and chairman
1		To be arranged		HEc 116f	Carpenter
					Johnston
					Zunich
599-2 to 8	Thesis				Consent of instructor and chairman
1		To be arranged		HEc 116f	Carpenter
					Johnston
					Zunich

## HOME ECONOMICS EDUCATION (HEED)

111-2	Home Economics Orientation				
1		7:30-8:20	Tu Th	HEc 303	Morgan
		9:30-10:20	W	HEc 303	Quigley
309b-3	Methods of Teaching in Home Economics				
1		10:30-11:20	M W F	HEc 203	Morgan
313-2 to 4	Special Problems				309
1		To be arranged			Morgan

\* June 19-August 11

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
415-1	Introduction to Graduate Study			
1	*7:30-8:20	W	HEc 133	Fults
481-2 to 6	Readings		Consent of department	
1	*To be arranged			Fults
500-4	Research Methods		Guidance 422b or consent of instructor	
1	*11:30-12:20	MTuWThF	HEc 120	Fults
507-4	Workshop: Wage Earning			
(July 17-August 11)				
1	9:30-11:20	MTuWThF	HEc 133	Fults
507-4	Workshop: Teaching Housing, Home Furnishings & Home Arts			
(June 19-July 14)				
2	9:30-11:20	MTuWThF	HEc 133	Campbell
507-2	Workshop: Working with Families of Many Cultures			
(July 3-14)				
3	12:30-2:20	MTuWThF	HEc 120	Lee
507-4	Workshop: Concepts and Generalizations with Emphasis on Clothing Area			
(July 17-August 11)				
4	2:30-4:20	MTuWThF	HEc 133	Keenan
572-2 to 8	Special Problems			
1	*To be arranged			
573-1	Seminar: Research in Home Economics		Consent of instructor	
1	*To be arranged			Rhodes
599-5 to 9	Thesis			
1	*To be arranged			
600-3 to 13	Dissertation			
1	*To be arranged			Fults Rhodes Keenan

### TECHNICAL AND INDUSTRIAL EDUCATION (TIED)

302-4	Construction Methods for Primary Teachers			
1	7:30-9:20	MTuWTh	Tech A307	
2	9:30-11:20	MTuWTh	Tech A307	
303-4	Diversified Crafts for Teachers			
1	12:30-2:20	MTuWTh	Tech A307	
319-3	Industrial Internship		Consent of coordinator	
1	To be arranged			
408-3	Teaching Aids in Technological Education			
1	9:30-10:20	MTu Th	Tech A122	
419-8 to 16	Advanced Student Teaching			
1	To be arranged			
435-6 to 12	Manual Arts Internship		Consent of coordinator	
1	To be arranged			
450-2	Advanced Skills in Technological Subjects			
(August 14-August 18)				
1	8:30-12:00	MTuWThF	To be arranged	
	1:00-3:00	MTuWThF	To be arranged	
2	8:30-12:00	MTuWThF	To be arranged	
	1:00-3:00	MTuWThF	To be arranged	
450-4	Advanced Skills in Technological Subjects			
(August 14-August 25)				
3	8:30-12:00	MTuWThF	Tech D131	
	1:00-3:00	MTuWThF	Tech D131	
465a-4	Industrial Safety		Junior standing	
(Cross-listed with Engineering Technology				
1	*7:30-8:20	MTuWThF	Tech A120	
480-3	Problems of Junior High School Industrial Arts			
1	*8:30-9:20	MTuWTh	Tech A208	
491a-3	Principles of Industrial Teaching			
1	10:30-11:20	MTu Th	Tech A310	
494-3	Organization and Administration of Industrial Education			
1	*7:30-8:20	MTuWTh	Tech A308	
495-3	Occupational Analysis			
1	*8:30-9:20	MTuWTh	Tech A310	
504-4	History of Industrial and Vocational Education			
1	*1:30-2:20	MTuWThF	Tech A308	
506-4	Cooperative Programs			
1	*1:30-2:20	MTuWThF	Tech A220	
540-4	Research in Technological Education			
1	*8:30-9:20	MTuWThF	Tech A308	
541-4	Occupational Information and Guidance			
(Cross-listed with Guidance and Educational Psychology)				
1	*11:30-12:20	MTuWThF	Ag 214	
* June 19-August 11				



## 36 TECHNICAL AND INDUSTRIAL EDUCATION (T I E D)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
560-2	New Developments in Technological Education			
(June 19-June 30)				
1	9:30-10:20	MTuWThF	Tech A220	
	12:30-1:20	MTuWThF	Tech A220	
560-2	New Developments in Technological Education			
(July 3-July 14)				
2	9:30-10:20	MTuWThF	Tech A220	
	12:30-1:20	MTuWThF	Tech A220	
560-2	New Developments in Technological Education			
(July 17-July 28)				
3	9:30-10:20	MTuWThF	Tech A220	
	12:30-1:20	MTuWThF	Tech A220	
560-2	New Developments in Technological Education			
(July 31-August 11)				
4	9:30-10:20	MTuWThF	Tech A220	
	12:30-1:20	MTuWThF	Tech A220	
570-2 to 6	Special Investigations			
1	To be arranged			
599-1 to 9	Thesis			
1	To be arranged			

## INDUSTRIAL TECHNOLOGY (IT)

306a-3	Industrial Design				Technology 101a
1	7:30-9:20	M W F		Tech A319	
312c-3	Wood Products and Processes				
1	7:30-9:20	M W F		To be arranged	
318c-3	Industrial Welding				
1	7:30-8:20	M W		Tech A122	
	7:30-9:20		Th	Tech D14b	
322a-3	Machining of Metals				
1	11:30-1:20	M W F		To be arranged	
327a-3	Materials, Processes and Fabrication of Metals				
1	9:30-11:20	M W F		To be arranged	
337a-3	Manufacturing Processes				
(July 19-July 21)					
(Cross-listed with Engineering Technology)					
1	10:30-11:20	MTuWTh		Tech A222	
	9:30-12:20		F	Tech D14b	
337b-3	Manufacturing Processes				
(July 24-September 1)					
(Cross-listed with Engineering Technology)					
1	10:30-11:20	MTuWTh		Tech A222	
	9:30-12:20		F	Tech D14b	
341b-3	Maintenance, Layout and Material Handling				
1	8:30-9:20	M W F		Tech A122	
343a-3	Electricity-Electronics				
1	1:30-3:20	M W F		Tech D108	

## INSTRUCTIONAL MATERIALS (IM)

308-4	Introduction to Cataloging				
1	*11:30-12:20	MTuWThF	Wham 329	Moore	
2	*12:30-1:20	MTuWThF	Wham 329	Moore	
403-4	School Library Functions & Management				
1	*8:30-9:20	MTuWThF	Wham 312	Evans	
405-4	Library Materials for Children				
1	*7:30-8:20	MTuWThF	Wham 329	Fletcher	
406-4	Library Materials for Adolescents				
1	*11:30-12:20	MTuWThF	Wham 307	Cox	
407-4	Introduction to References				
1	*7:30-8:20	MTuWThF	Wham 312	Ubel	
413-4	Cataloging Non-Book Materials				308
1	*8:30-9:20	MTuWThF	Wham 329	Cox	
417-4	Audio-Visual Methods in Education				
1	*7:30-8:20	MTuWThF	Wham 327	Ingli	
2	9:30-10:20	MTuWTh	Wham 327	Butts	
3	10:30-11:20	MTuWTh	Wham 327	Butts	
4	*11:30-12:20	MTuWThF	Wham 327	Evans	
5	*12:30-1:20	MTuWThF	Wham 327	Missavage	
6	*1:30-2:20	MTuWThF	Wham 327	Missavage	
7	*2:30-3:20	MTuWThF	Wham 327	Wisely	
8	*3:30-4:20	MTuWThF	Wham 327	Wisely	
420-4	School Library Activities & Practices				308, 403, 405, 406, 407
1	*8:30-9:20	MTuWThF	Wham 327	Fletcher	

\* June 19-August 11

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
445-4	Preparation of Teacher Made Materials				417
1	*7:30-9:20	MTuWThF	Wham 202	Brown	
2	*9:30-11:20	MTuWThF	Wham 202	Brown	
448-4	Supervision & Administration of an Audio Visual Program				417
1	*9:30-10:20	MTuWThF	Wham 301b	Ingli	
450-2	Classroom Teaching with TV				417
(August 14-19)					
1	8:30-10:20	MTuWThF	L 101	Campion	
1	12:30-2:20				
470-4	Programming Automated Instruction				
1	*11:30-12:20	MTuWThF	Wham 210	Rust	
546-4	Integration of AV Materials in the Classroom				417
1	*9:30-10:20	MTuWThF	Wham 206	Rust	

## JOURNALISM (JOUR)

101-3	Introduction to Journalism I				
1	7:30-8:20	M W F	L 121	Clayton	
103-3	The News				101, 102
1	8:30-9:20	M F	T27	Frazer	
	8:30-10:20	W			
201-3	News Writing and Editing I				
1	10:30-11:20	M	T48	Matheson	
	6 hrs. lab to be arranged				
202-3	News Writing and Editing II				103
1	9:30-10:20	M W	T27	Fought	
	9:30-11:20	F			
303-3	News Writing and Editing III				202
1	12:30-1:20	Tu	T27		
	6 hrs. lab to be arranged		T48	Fought	
310 <sup>1</sup> -4	Radio and TV News				103, 201, 202, 303
1	3:30-4:20	M W F	Comm 144	Dugas	
330-3	Editorial Writing				202
1	10:30-11:20	M W F	T27	Clayton	
370-3	Principles of Advertising				
1	1:30-2:20	M W F	T27	Hileman	
373-3	Advertising Media and Markets				370
1	11:30-12:20	M W F	T27	Clayton	
385 <sup>1</sup> -1 to 2	Radio-TV Special Events				Consent of department
1	8:30-9:20	W	Comm 144	Dugas	
390-3	Advanced Reporting				202
1	9:30-10:20	Tu Th S	T27		
391-3	Feature Writing				202
1	10:30-11:20	Tu Th S	T27	Matheson	
393-3	Publicity Methods				
1	*1:30-2:20	M WThF	Cl 10	Clayton	
399-1	Senior Seminar				
	11:30-12:20	M	T27	Frazer	
421-4	School Publications				
	*9:30-10:20	MTuWThF	Cl 10	Rice	
422-3	Teaching High School Journalism				Junior standing
1	*12:30-1:20	MTuW F	Cl 10	Rice	
433-3	Measurement of Public Opinion				
1	8:30-9:20	M W F	Cl 10	Rucker	
449-2	Practicum				Consent of department
1	To be arranged				
499-3	Workshop, News Analysis in the Classroom				
(July 24-August 2)					
1	8:30-11:20	MTuWThF	HEc 122	Long	
	1:00-4:00				
533-1 to 3	Research Problems in Journalism				
1	To be arranged			Rucker	
545-3	Studies in Journalism History				
1	6:00-9:00 pm	W	T27	Hart	
599-1 to 8	Thesis				
1	To be arranged			Rucker	
600-1 to 6	Dissertation				
1	To be arranged				

## MANAGEMENT (MGT)

340-4	Business Organization and Management				
1	9:30-10:20	TuWThF	L 201	Patrick	
350-4	Management Control Systems				340 or consent of instructor
1	9:30-10:20	MTu ThF	L 221	Siemens	

\* June 19-August 11

<sup>1</sup> Cross-listed with Radio-TV

# 38 MANAGEMENT (MGT)

Course No.	Hours Summer	Descriptive Title	Time	Days	Place	Prerequisite Instructor
360-5		Seminar in Small Business				Small Business major
1		To be arranged				Bedwell
380-4		Production Management				340 or consent of instructor
1		8:30-9:20		TuWThF	L 201	Siemens
382-4		Time and Motion Study				
1		11:30-12:20		TuWThF	L 131	Siemens
451-4		Methods of Quantitative Analysis				MBA student or consent of instructor
1		2:30-3:20		MTuWTh	L 131	F. Greenwood
452-4		Business Operations Analysis				340 and 451 or consent of instructor
1		1:30-2:20		MTuWTh	L 131	F. Greenwood
481-4		Administrative Management				340
1		1:30-3:20		MTuWTh	Wham 206	Hunt

# MARKETING (MKT)

225-3		Marketing & the Economy				GSB 202 or GSB 212 or equivalent
1		7:30-8:20		TuWThF	L 101	Rosenbarger
325-4		Marketing and the Firm				225 and Acct 251a or equivalent
1		7:30-8:20		MTuWTh	L 221	LaGarce
329-4		Retail Management				325
1		8:30-9:20		MTuWTh	L 221	LaGarce
333-4		Principles of Advertising				325
1		9:30-10:20		TuWThF	HEc 203	Wonneberg
336-4		Purchasing				325
1		11:30-12:20		TuWThF	L 101	Wonneberg
337-4		Principles of Salesmanship				325
1		10:30-11:20		MTuWTh	L 221	LaGarce
341-4		Transportation				325
1		8:30-9:20		TuWThF	L 121	Rosenbarger
438-4		Sales Management				325 & 337
1		10:30-11:20		MTuWTh	L 101	Hoffman
439-4		Industrial Marketing Management				325 & 336
1		10:30-11:20		M WThF	L 201	Lowry
463-4		Advertising Management				325 & 333
1		11:30-12:20		TuWThF	L 121	Rosenbarger
490-4		Marketing Research & Analysis				325 & one quarter of basic statistics or its equivalent
1		12:30-1:20		M WThF	L 201	Lowry

# MATHEMATICS (MATH)

150a-5		Elementary Calculus and Analytic Geometry				GSD 114b
1		7:30-8:20		MTuWThF	Tech A310	
2		7:30-8:20		MTuWThF	Tech A320	
3		10:30-11:20		MTuWThF	Tech A320	
150b-5		Elementary Calculus and Analytic Geometry				150a
1		8:30-9:20		MTuWThF	Tech A320	
2		1:30-2:20		MTuWThF	Tech A310	
252a-5		Intermediate Calculus and Analytic Geometry				150b
1		9:30-10:20		MTuWThF	Tech A310	
2		9:30-10:20		MTuWThF	Tech A320	
252b-4		Intermediate Calculus and Analytic Geometry				252a
1		10:30-11:20		MTu ThF	Tech A308	
305a-3		Applied Mathematics for the Physical Sciences				252b
(June 19-July 24)						
1		8:30-9:20		TuWThF	Tech A322	
		7:30-9:20		M	Tech A322	
305b-3		Applied Mathematics for the Physical Sciences				305a
(July 25-September 1)						
1		8:30-9:20		TuWThF	Tech A322	
		7:30-9:20		M	Tech A322	
310-4		The Teaching of Elementary Mathematics				GSD 108b
1		*8:30-9:20		MTuWThF	M 210	
2		11:30-12:20		TuWThF	Tech A310	
320a-3		Fundamental Concepts of Algebra				150b
(June 19-July 24)						
1		2:30-3:20		TuWThF	Tech A310	
		2:30-4:20		M	Tech A310	
320b-3		Fundamental Concepts of Algebra				320a
(July 25-September 1)						

\* June 19-August 11

<sup>1</sup> Section 1 of Mathematics 310 is for in-service teachers only.



Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
1	2:30–3:20 2:30–4:20	TuWThF M	Tech A310 Tech A310	
421a–3	Linear Algebra (June 19–July 24)			252b
1	12:30–1:20 12:30–2:20	TuWThF M	Tech A222 Tech A222	
421b–3	Linear Algebra (July 25–September 1)			421a
1	12:30–1:20 12:30–2:20	TuWThF M	Tech A222 Tech A222	
425–3	Theory of Numbers			320a
1	*8:30–9:20	MTu ThF	HEc 303	
440–4	Modern Algebra for Teachers			NSF only
1	*10:30–11:20	MTuWThF	Tech A322	
442–4	Survey of Geometry			NSF only
1	*10:30–11:20	MTuWThF	HEc 303	
444–4	Sets, Functions, and Relations			NSF only
1	*12:30–1:20	MTuWThF	HEc 102	
445–4	Fundamental Concepts of Calculus			NSF only
1	*8:30–9:20	MTuWThF	Tech A210	
458a–3	Finite Mathematics (June 19–July 24)			252a
1	10:30–12:20 10:30–11:20	M TuWThF	Tech A210 Tech A210	
458b–3	Finite Mathematics (July 25–September 1)			458a
1	10:30–12:20 10:30–11:20	M TuWThF	Tech A210 Tech A210	
540–4	Groups and Linear Transformations			NSF only
1	*9:30–10:20	MTuWThF	HEc 118	
543–4	Probability for Teachers			NSF only
1	*1:30–2:20	MTuWThF	Tech A320	
545–4	Intermediate Analysis for High School Teachers			NSF only
1	*7:30–8:20	MTuWThF	Tech A208	
547–3	The Secondary School Mathematics Program			NSF only
1	*12:30–1:20	MTu ThF	Tech A310	
550a–3 to 6	Seminar			
1	To be arranged			
550b–3 to 6	Seminar			
1	To be arranged			
550c–3 to 6	Seminar			
1	To be arranged			
550d–3 to 6	Seminar			
1	To be arranged			
550f–3 to 6	Seminar			
1	To be arranged			
550g–3 to 6	Seminar			
1	To be arranged			
592–3	Research in Mathematics Education			NSF only
1	*12:30–1:20	M WThF	Tech A308	
595a–2 to 5	Special Project in Algebra			Consent of department
1	To be arranged			
595b–2 to 5	Special Project in Geometry			Consent of department
1	To be arranged			
595c–2 to 5	Special Project in Analysis			Consent of department
1	To be arranged			
595d–2 to 5	Special Project in Probability and Statistics			Consent of department
1	To be arranged			
595f–2 to 5	Special Project in Logic and Foundations			Consent of department
1	To be arranged			
595g–2 to 5	Special Project in Topology			Consent of department
1	To be arranged			
599–2 to 6	Thesis			Consent. of department
1	To be arranged			

## MICROBIOLOGY (MICR)

390–2 to 5	Undergraduate Research Participation	4.0 average & consent of instructor
1	To be arranged	

\* June 19–August 11

## 40 MICROBIOLOGY (MICR)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
511-1 to 8	Research			
1	To be arranged			
528-1 to 8	Readings in Microbiology			
1	To be arranged			
599-3 to 9	Thesis			
1	To be arranged			
600-1 to 12	Dissertation			
1	To be arranged			

## MUSIC (MUS)

001b-1	Symphonic Band	1	2:30-3:20	Tu	Th	T 36	Siener	
002a-1	University Choir	1	2:30-3:20	M	W	F	Alg 115	Kingsbury
002c-1	Male Glee Club	1	3:30-4:20	Tu	ThF	Alg 115	Kingsbury	
003-1	Orchestra	1	3:30-4:20	M	W	T 36	Levinson	
			7:00-9:00 pm	Tu		T 36	van Bronkhorst	
010e-1	Class Piano	1	8:30-9:20	M	W	Alg 301	Grizzell	
		2	8:30-9:20	Tu	Th	Alg 301	Grizzell	
		3	9:30-10:20	M	W	Alg 301	Grizzell	
		4	9:30-10:20	Tu	Th	Alg 301	Grizzell	
010f-1	Class Voice	1	7:30-8:20	Tu	Th	Alg 248		
105c-4	Theory of Music	1	7:30-8:20	MTuWThF		Alg 116	Hussey	
140a-1 to 4	Private Applied Music—Violin	1	To be arranged				Levinson	
							van Bronkhorst	
140b-1 to 4	Private Applied Music—Viola	1	To be arranged				Levinson	
							van Bronkhorst	
140c-1 to 4	Private Applied Music—Cello	1	To be arranged				Spurbeck	
140d-1 to 4	Private Applied Music—String Bass	1	To be arranged				Spurbeck	
140e-1 to 4	Private Applied Music—Flute	1	To be arranged				Hussey	
140f-1 to 4	Private Applied Music—Oboe	1	To be arranged				Hussey	
140g-1 to 4	Private Applied Music—Clarinet	1	To be arranged				Rose	
140h-1 to 4	Private Applied Music—Bassoon	1	To be arranged				Intravaia	
140i-1 to 4	Private Applied Music—Saxophone	1	To be arranged				Rose	
140j-1 to 4	Private Applied Music—Percussion	1	To be arranged				Hanes	
140k-1 to 4	Private Applied Music—Piano	1	To be arranged				Denker	
		2	To be arranged				Barwick	
		3	To be arranged				Mueller	
140l-1 to 4	Private Applied Music—French horn	1	To be arranged				Nadaf	
							Stiman	
140m-1 to 4	Private Applied Music—Trumpet	1	To be arranged				Franklin	
140n-1 to 4	Private Applied Music—Trombone	1	To be arranged				Nadaf	
							Stiman	
140o-1 to 4	Private Applied Music—Tuba	1	To be arranged				Siener	
140p-1 to 4	Private Applied Music—Baritone	1	To be arranged				Nadaf	
							Stiman	
140q-1 to 4	Private Applied Music—Voice	1	To be arranged				Taylor	
		2	To be arranged				Waterman	
140r-1 to 4	Private Applied Music—Organ	1	To be arranged				Webb	
140s-1 to 4	Private Applied Music—Harpsichord	1	To be arranged				Consent of instructor	
							Morgan	

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
200-3	Fundamentals of Music				
1	*1:30-2:20	MTuW	F	Alg 248	Gordon
240a-1 to 4	Private Applied Music—Violin				
1	To be arranged				Levinson van Bronkhorst
240b-1 to 4	Private Applied Music—Viola				
1	To be arranged				Levinson van Bronkhorst
240c-1 to 4	Private Applied Music—Cello				
1	To be arranged				Spurbeck
240d-1 to 4	Private Applied Music—String Bass				
1	To be arranged				Spurbeck
240e-1 to 4	Private Applied Music—Flute				
1	To be arranged				Hussey
240f-1 to 4	Private Applied Music—Oboe				
1	To be arranged				Hussey
240g-1 to 4	Private Applied Music—Clarinet				
1	To be arranged				Rose
240h-1 to 4	Private Applied Music—Bassoon				
1	To be arranged				Intravaia
240i-1 to 4	Private Applied Music—Saxophone				
1	To be arranged				Rose
240j-1 to 4	Private Applied Music—Percussion				
1	To be arranged				Hanes
240k-1 to 4	Private Applied Music—Piano				
1	To be arranged				Denker
2	To be arranged				Barwick
3	To be arranged				Mueller
240l-1 to 4	Private Applied Music—French Horn				
1	To be arranged				Nadaf Stiman
240m-1 to 4	Private Applied Music—Trumpet				
1	To be arranged				Franklin
240n-1 to 4	Private Applied Music—Trombone				
1	To be arranged				Nadaf Stiman
240o-1 to 4	Private Applied Music—Tuba				
1	To be arranged				Siener
240p-1 to 4	Private Applied Music—Baritone				
1	To be arranged				Nadaf Stiman
240q-1 to 4	Private Applied Music—Voice				
1	To be arranged				Taylor
2	To be arranged				Waterman
240r-1 to 4	Private Applied Music—Organ				
1	To be arranged				Webb
240s-1 to 4	Private Applied Music—Harpsichord				Consent of instructor Morgan
1	To be arranged				
300a-3	Elementary Music Methods for Music Majors				
1	*2:30-3:20	M	WThF	Alg 106	C. Taylor
300b-3	Elementary Music Methods for Non-Music Majors				
1	*1:30-2:20	M	WThF	Alg 106	Robinson
306-3	Music for Primary Children				Mus. 200
1	*8:30-9:20	MTuWThF		Alg 248	Robinson
340a-1 to 4	Private Applied Music—Violin				
1	To be arranged				Levinson van Bronkhorst
340b-1 to 4	Private Applied Music—Viola				
1	To be arranged				Levinson van Bronkhorst
340c-1 to 4	Private Applied Music—Cello				
1	To be arranged				Spurbeck
340d-1 to 4	Private Applied Music—String Bass				
1	To be arranged				Spurbeck
340e-1 to 4	Private Applied Music—Flute				
1	To be arranged				Hussey
340f-1 to 4	Private Applied Music—Oboe				
1	To be arranged				Hussey
340g-1 to 4	Private Applied Music—Clarinet				
1	To be arranged				Rose
340h-1 to 4	Private Applied Music—Bassoon				
1	To be arranged				Intravaia

\* Music 502b may be taken for either 8 weeks or full quarter, after consultation with the department chairman. Class assignments will be adjusted within the indicated time schedule.



Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
340i-1 to 4	Private Applied Music—Saxophone			
1	To be arranged			Ros
340j-1 to 4	Private Applied Music—Percussion			
1	To be arranged			Hane
340k-1 to 4	Private Applied Music—Piano			
1	To be arranged			Denke
2	To be arranged			Barwic
3	To be arranged			Muelle
340l-1 to 4	Private Applied Music—French Horn			
1	To be arranged			Nada Stima
340m-1 to 4	Private Applied Music—Trumpet			
1	To be arranged			Frankli
340n-1 to 4	Private Applied Music—Trombone			
1	To be arranged			Nada Stima
340o-1 to 4	Private Applied Music—Tuba			
1	To be arranged			Siene
340p-1 to 4	Private Applied Music—Baritone			
1	To be arranged			Nada Stima
340q-1 to 4	Private Applied Music—Voice			
1	To be arranged			Taylo
2	To be arranged			Waterma
340r-1 to 4	Private Applied Music—Organ			
1	To be arranged			Web
340s-1 to 4	Private Applied Music—Harpsichord			Conser of instructo
1	To be arranged			Morga
346-2 to 12	Opera Workshop (Opera)	Hot Springs, Arkansas		
(June 19–July 28)				
1	9:00–12:00	M W F		Lawrenc
	4:00–6:00	Tu ThF		
346-2 to 12	Opera Workshop (Music Theater)			
2	8:30–12:30		HEc 140b	W. Taylo
	7:00–10:00 pm	MTuWThF		
355-1	Chamber Music (Strings)			
1	To be arranged			Levinso
			T 36	van Bronkhors
365-1	Chamber Music (Woodwinds)			
1	To be arranged		Aud 201	Ros
440a-1 to 4	Private Applied Music—Violin			
1	To be arranged			Levinso van Bronkhors
440b-1 to 4	Private Applied Music—Viola			
1	To be arranged			Levinso van Bronkhors
440c-1 to 4	Private Applied Music—Cello			
1	To be arranged			Spurbec
440d-1 to 4	Private Applied Music—String Bass			
1	To be arranged			Spurbec
440e-1 to 4	Private Applied Music—Flute			
1	To be arranged			Husse
440f-1 to 4	Private Applied Music—Oboe			
1	To be arranged			Husse
440g-1 to 4	Private Applied Music—Clarinet			
1	To be arranged			Ros
440h-1 to 4	Private Applied Music—Bassoon			
1	To be arranged			Intrava
440i-1 to 4	Private Applied Music—Saxophone			
1	To be arranged			Ros
440j-1 to 4	Private Applied Music—Percussion			
1	To be arranged			Hane
440k-1 to 4	Private Applied Music—Piano			
1	To be arranged			Denke
2	To be arranged			Barwic
3	To be arranged			Muelle
440l-1 to 4	Private Applied Music—French Horn			
1	To be arranged			Nada Stima
440m-1 to 4	Private Applied Music—Trumpet			
1	To be arranged			Frankli
440n-1 to 4	Private Applied Music—Trombone			
1	To be arranged			Nadaf, Stima
440o-1 to 4	Private Applied Music—Tuba			
1	To be arranged			Siene

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
40p-1 to 4 1	Private Applied Music—Baritone To be arranged			Nadaf Stiman
40q-1 to 4 1 2	Private Applied Music—Voice To be arranged To be arranged			Taylor Waterman
40r-1 to 4 1	Private Applied Music—Organ To be arranged			Webb
40s-1 to 4 1	Private Applied Music—Harpsichord To be arranged			Consent of instructor Morgan
41b-2 1	Counterpoint 9:30-10:20	Tu Th	Alg 248	205c Mueller Werner
45a-3 1	Development and Teaching of Strings 10:30-11:20	M W F	Alg 248	340 Spurbeck
481-2 to 6 1	Readings in Music Theory To be arranged		Alg 241	Werner Mueller
482-2 to 6 1	Readings in Music History-Literature To be arranged		Alg 247	Barwick Morgan
483-2 to 6 1	Readings in Music Education To be arranged		Aud 204	Gordon
501-3 1	Introduction to Graduate Study *8:30-9:20	M WThF	Lib Sem	Denker Intravaia
502b-2 1	Analytic Techniques (8 or 12 weeks) 11:30-12:20	M W F	Alg 106	Mueller Werner
508-3 1	Music of the Twentieth Century To be arranged			Mueller
509-3 1	History & Philosophy of Music Education To be arranged		Aud 204	Gordon
540a-1 to 4 1	Private Applied Music—Violin To be arranged			Levinson van Bronkhorst
540b-1 to 4 1	Private Applied Music—Viola To be arranged			Levinson van Bronkhorst
540c-1 to 4 1	Private Applied Music—Cello To be arranged			Spurbeck
540d-1 to 4 1	Private Applied Music—String Bass To be arranged			Spurbeck
540e-1 to 4 1	Private Applied Music—Flute To be arranged			Hussey
540f-1 to 4 1	Private Applied Music—Oboe To be arranged			Hussey
540g-1 to 4 1	Private Applied Music—Clarinet To be arranged			Rose
540h-1 to 4 1	Private Applied Music—Bassoon To be arranged			Intravaia
540i-1 to 4 1	Private Applied Music—Saxophone To be arranged			Rose
540j-1 to 4 1	Private Applied Music—Percussion To be arranged			Hanes
540k-1 to 4 1 2 3	Private Applied Music—Piano To be arranged To be arranged To be arranged			Denker Barwick Mueller
540l-1 to 4 1	Private Applied Music—French Horn To be arranged			Nadaf Stiman
540m-1 to 4 1	Private Applied Music—Trumpet To be arranged			Franklin
540n-1 to 4 1	Private Applied Music—Trombone To be arranged			Nadaf Stiman
540o-1 to 4 1	Private Applied Music—Tuba To be arranged			Siener
540p-1 to 4 1	Private Applied Music—Baritone To be arranged			Nadaf Stiman

\* Music 502b may be taken for either 8 weeks or full quarter, after consultation with the department chairman. Class assignments will be adjusted within the indicated time schedule.

## 44 MUSIC (MUS)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
540q-1 to 4	Private Applied Music—Voice			
1	To be arranged			Taylor
2	To be arranged			Waterman
540r-1 to 4	Private Applied Music—Organ			
1	To be arranged			Webb
540s-1 to 4	Private Applied Music—Harpsichord			Consent of instructor
1	To be arranged			Morgan
556-2 to 6	Advanced Conducting			318
1	To be arranged		T 36	van Bronkhors
2	To be arranged		Alg 115	Levinson
3	To be arranged			Kingsbury
566-1	Instrumental Ensemble (Orchestra)			Siene
1	3:30-4:20	M W	T 36	van Bronkhors
	7:00-9:00 pm	Tu	T 36	Levinson
566-1	Instrumental Ensemble (Band)			
2	2:30-3:30	Tu Th	T 36	Siene
567-1	Vocal Ensemble (Chorus)			
1	2:30-3:20	M W F	Alg 115	Kingsbury
568-2 to 12	Opera Workshop (Opera)			
	(June 19-July 28)			
1	9:00-12:00	M W F	Arkansas	Lawrence
	4:00-6:00	Tu ThF		
568-2 to 12	Opera Workshop (Music Theater)			
2	8:30-12:30		HEc 140B	W. Taylor
	7:00-10:00 pm	MTuWThF		
599-3 to 9	Thesis			
1	To be arranged		Aud 204	Gordon

## PHILOSOPHY (PHIL)

381-3	Greek Philosophy (See General Studies Area C for schedule)			
382-3	Graeco-Roman and Medieval Philosophies (See General Studies Area C for schedule)			
383-3	Early Modern Philosophy (See General Studies Area C for schedule)			
320-4	General Logic			
1	10:30-11:20	MTuWTh	HEc 206	Clark
340-4	Elementary Ethics and Politics			
1	7:30-8:20	MTuWTh	HEc 208	
490-3	Peirce			
1	2:30-5:00	M	HEc 211	Clark
490-3	Special Problems			
2	To be arranged		HEc 209	
500-3	Seminar in Metaphysics			
1	2:30-5:00	Tu	HEc 211	
501-3	Seminar in the Philosophy of Religion			
1	2:30-5:00	W	HEc 211	Howie
589-4	Dewey Social and Political Philosophy			
	(Cross-listed with Education Administration and Supervision)			
1	*12:30-1:20	MTuWThF	HEc 211	Axtell
590-3	Descartes			
1	2:30-5:00	Th	HEc 211	Kelly
591-1 to 12	Readings			
1	To be arranged		HEc 209	
599-2 to 9	Thesis			
1	To be arranged		HEc 209	
600-2 to 12	Dissertation			
1	To be arranged		HEc 209	

## PHYSICAL EDUCATION FOR MEN (PEM)

100a-1	Methods of Teaching Swimming			
1	11:30-12:20	M WTh	Pool	Essick
100b-1	Methods of Teaching Golf			
1	10:30-11:20	M W	Arena	Holde

\* June 19-August 11

Note—All private lessons (Applied Music Courses) must be arranged with the instructor concerned on the first day of the summer quarter (June 19). Courses in private or class instruments will be offered to qualified nonmusic majors after consultation with the chairman of the Department of Music. Students enrolled in private or class applied courses are expected to practice at least one hour per day. Air-conditioned practice rooms will be assigned on the first day of the quarter in Altgeld 103.



Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
00c-1	Methods of Teaching Tennis			
1	8:30-9:20	Tu Th	Tennis	LeFevre
00g-2	Methods of Teaching Football (meets for first nine weeks)			
1	9:30-10:20	MTuWThF	Arena	Wilkinson
00i-2	Methods of Teaching Baseball			
1	12:30-2:20	M W	Arena	Lutz
01-2	Orientation Practicum in Physical Education			
1	7:30-8:20	M W	Arena 123	Martin
03-5	Kinesiology			Phsl 300, GSA 301
1	8:30-9:20	MTuWThF	Arena 125	
30a-2	Theory of Basketball Coaching			100h
(July 10-August 11)				
1	10:30-12:20	Tu Th	Arena	Hartman
41-3	Principles of Physical Education			Senior standing
1	9:30-10:20	M W F	Arena 125	Shea
55-2	Assisting Techniques			
1	12:30-1:20	Tu	Arena 119	Wilkinson
70-4	Tests and Measurements in Physical Education			
1	11:30-12:20	MTuWTh	Gym 204	West
00-4 <sup>1</sup>	Evaluation in Physical Education			
(Cross-listed with PEW)				
1	10:30-11:20	MTuWThF	Gym 204	West
06-4 <sup>1</sup>	Basic Concepts in Physical Education			
(Cross-listed with PEW)				
1	*8:30-9:20	MTuWThF	Tech D131	Shea
07-4	Scientific Basis of Athletic Training			303 & Phsl 300
1	1:30-2:20	MTuWThF	Arena 125	Spackman
08-4 <sup>1</sup>	Physical Fitness—Its Role and Application in Education			
(Cross-listed with PEW)				
1	*11:30-12:20	MTuWThF	Arena 123	Weber
20-4 <sup>1</sup>	Physiological Effects of Motor Activity			
1	10:30-11:20	MTuWTh	Arena 123	Weber
00-4 <sup>1</sup>	Techniques of Research			
(Cross-listed with PEW)				
1	*7:30-8:20	MTuWThF	Arena 125	Knowlton
02-4 <sup>1</sup>	Foundations of Motor Skills			
(Cross-listed with PEW)				
1	9:30-10:20	MTuWTh	Gym 204	Zimmerman
04-4 <sup>1</sup>	Problems in Physical Education			500
(Cross-listed with PEW)				
1	*To be arranged			
25-1 to 5 <sup>1</sup>	Readings in Physical Education			Consent of department
(Cross-listed with PEW)				
1	*To be arranged			
99-6 to 9 <sup>1</sup>	Thesis			
(Cross-listed with PEW)				
1	To be arranged			
00-1 to 12 <sup>1</sup>	Dissertation			
(Cross-listed with PEW)				
1	To be arranged			

## PHYSICAL EDUCATION FOR WOMEN (PEW)

19-4	Teaching Elementary School Group Activities			Guid
				305 or Psyc 303
1	10:30-11:20	MTuWTh	Gym 208	Stehr
2	11:30-12:20	MTuWTh	Gym 208	Zimmerman
3	1:30-2:20	MTuWTh	Gym 208	Zimmerman
55-3	Techniques of Teaching Swimming			Intermediate
				Swimming or Equivalent
1	7:30-8:20	M W F	Pool	West
70-4	Tests & Measurements in Physical Education			
1	11:30-12:20	MTuWTh	Gym 204	West
00-4 <sup>2</sup>	Evaluation in Physical Education			
1	*10:30-11:20	MTuWThF	Gym 204	West
04-4	The Teaching of Sports			
1	*1:30-2:20	MTuWThF	Gym 207	Thorpe
06-4 <sup>2</sup>	Basic Concepts in Physical Education			
1	*8:30-9:20	MTuWThF	Tech D131	Shea
08-4 <sup>2</sup>	Physical Fitness—Its Role & Application in Education			
1	*11:30-12:20	MTuWThF	Arena 123	Weber
75a-2 to 4 <sup>1</sup>	Individual Research—Dance			
	*To be arranged			

June 19-August 11

Cross-listed with Physical Education for Women

Cross-listed with Physical Education for Men

## 46 PHYSICAL EDUCATION FOR WOMEN (PEW)

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite
Summer					Instructor
475b-2 to 4 <sup>1</sup>	Individual Research—Kinesiology				
	*To be arranged				
475d-2 to 4 <sup>1</sup>	Individual Research—Motor Learning				
	*To be arranged				
475e-2 to 4 <sup>1</sup>	Individual Research—Physiology of Exercise				
	*To be arranged				
475f-2 to 4 <sup>1</sup>	Individual Research—History & Philosophy				
	*To be arranged				
500-4 <sup>1</sup>	Techniques of Research				4
1	*7:30-8:20	MTuWThF		Arena 125	Knowl
504-4 <sup>1</sup>	Problems in Physical Education				5
	*To be arranged				
525-1 to 6 <sup>1</sup>	Readings in Physical Education				
	*To be arranged				
599-6 to 9 <sup>1</sup>	Thesis				
	*To be arranged				
600-1 to 12 <sup>1</sup>	Dissertation				
	*To be arranged				

## PHYSICS (PHYS)

206a-5	College Physics					GSD 11
1	7:30-8:20	M	W	F	P 308	
	7:30-9:20	Tu			P 317	
	7:30-9:20		Th		P 308	
206c-5	College Physics					20
1	10:30-11:20	TuW	F		P 308	
	10:30-12:20	M			P 317	
	10:30-12:20		Th		P 308	
211a-5	University Physics					Math 150b
					concurrent enrollment	
1	9:30-10:20	Tu	ThF		P 308	
	9:30-11:20	M			P 308	
	9:30-11:20		W		P 317	
211c-5	University Physics					21
1	7:30-9:20	Tu			P 308	
	7:30-9:20		Th		P 317	
	8:30-9:20	M	W	F	P 308	
300-5	University Physics IV					211a,b,c or 206a,b
	(Cross-listed with Applied Science)					
1	9:30-10:20	TuW	F		P 309	
	9:30-11:20	M	Th		P 302	
312-5	Radio					206b or 211
1	7:30-8:20	MTuW	F		P 309	
	7:30-9:20		Th		P 318	
410-5	Physical Optics					305b, Math 306
					consent of department	
t1	7:30-9:20	Tu	Th		P 302	
	8:30-9:20	M	W	F	P 309	
420-2 to 5	Special Projects I					Consent of department
1	To be arranged					
450-5	Solid State Physics					305b, 413b, or consent of department
1	9:30-10:20	MTu	ThF		P 301	
	9:30-11:20		W		P 303	
520-2 to 5	Special Projects					Consent of department
1	To be arranged					
590-1 to 9	Thesis					Consent of department
1	To be arranged					

## PHYSIOLOGY (PHSL)

414-4	Anatomy and Physiology of Speech & Hearing Mechanism					
	(Cross-listed with Speech Pathology & Audiology)					
1	*7:30-8:20	MTuWTh		LS 113		Kaplan
300-4	Human Anatomy					
1	8:30-9:20	MTu	ThF	LS G16		Jacob
	9:30-11:20	Tu		LS G18		Jacob
t2	8:30-9:20	MTu	ThF	LS G16		Jacob
	9:30-11:20		Th	LS G18		Jacob
599-3	Thesis					Consent of department
1	*1:30-3:30	MTuWThF		LS all labs		
600-6	Dissertation					Consent of department
1	*1:30-3:30	MTuWThF		LS all labs		

\* June 19-August 11

<sup>1</sup> Cross-listed with Physical Education for Men

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
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## PLAN A (PL A)

1d-3	Honors Seminar				
1	2:30-4:30	Tu	Plan-A House	Benziger	

## PLANT INDUSTRIES (PLI)

3-4	Introductory Study of Soils			H.S. Chemistry or concurrent college chemistry	
1	3:30-4:20	MTuWTh	Ag 155	Jones	
9-4	Field Crop Production			GSA 201a	
1	9:30-10:20	TuWTh	Ag 214	Portz	
	9:30-11:20	F	Ag 171		
6-4	Radioisotopes, Principles and Practices			Biochemistry, Physiology or consent of department	
1	1:30-3:20	Tu	Ag 155		
	2:30-3:20	M WTh	Ag 155	Tweedy	
8-4	Weeds and Their Control			GSA 201b or concurrent enrollment	
	June 26-July 21 (four-week short course)				
1	1:30-4:20	Tu Th	Ag 214		
	1:30-3:20	M W F	Ag 214	Leasure	
8-5	Vegetable Crops			264, GSA 201b, or equal	
1	7:30-8:20	MTuW F	Ag 181	Hillyer	
	7:30-9:20	Th	Ag 181		
10-1 to 3	Readings			Consent of department	
1	To be arranged				
15-1 to 6	Research			Consent of department	
1	To be arranged		Ag 167		
19-1 to 9	Thesis			Consent of department	
1	To be arranged		Ag 167		

## PRINTING AND PHOTOGRAPHY (P &amp; P)

60a-4	Fundamentals of Still Photography				
1	10:30-11:20	M W F	T27 104	Horrell	
	12:30-2:20	W	Ag 142	Horrell	
2	10:30-11:20	M W F	T27 104	Horrell	
	12:30-2:20	F	Ag 142	Horrell	
11a-4	Cinematography				
1	9:30-10:20	TuWTh	T27 104	Mercer	
	12:30-2:20	W	T27 104	Mercer	
2	9:30-10:20	TuWTh	T27 104	Mercer	
	2:30-4:20	W	T27 104	Mercer	
1-5	Workshop in Still Photography			Consent of department	
1	*2:30-4:20	MTuWTh	T27 104	Horrell	
2-1 to 6	Workshop in Cinema Production			Consent of department	
1	To be arranged			Paine	
31-1 to 6	Problems in Still Photography & Cinematography			Consent of department	
1	To be arranged				

## PSYCHOLOGY (PSYC)

11a-4	Principles and Methods of Psychology			GSB 201c	
1	9:30-10:20	MTuW	LS G16	Long	
	8:30-10:20	Th	T142		
2	9:30-10:20	MTuW	LS G16	Long	
	8:30-10:20	F	T142		
11b-4	Principles and Methods of Psychology			211a	
1	10:30-11:20	MTuW	HEc 202	Evanson	
	9:30-11:20	F	904 S. Forest		
101-4	Child Psychology			GSB 201c	
1	7:30-8:20	MTuWTh	L 231		
105-4	Psychology of Personality			GSB 201c	
1	8:30-9:20	MTu ThF	Ag 214		
107-4	Social Psychology			GSB 201c	
1	10:30-11:20	MTuWTh	Ag 216		
120-4	Industrial Psychology			GSB 201c	
1	9:30-10:20	MTu ThF	Ag 216	Hill	
106-4	Learning Processes			Consent of instructor	
1	7:30-9:20	M Th	Wham 212	Meltzer	

June 19-August 11



## 48 PSYCHOLOGY (PSYC)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequis Instruct
440-4	Theories of Personality			30
1	8:30-9:20	MTuWTh	LS 133	Sch
T459-4	Theory and Practice in the Preschool			
1	7:30-8:30	MTuWThF	Comm 118	
	9:00-11:30	MTuWThF	To be arranged	
531-4	Advanced Psychopathology			Consent of department
1	*To be arranged			O'Donne
590-1 to 16	Readings in Psychology			Consent of instructo
1	To be arranged			
591-1 to 18	Research in Psychology			Consent of instructo
1	To be arranged			
593e-1 to 18	Practicum in Clinical Psychology			Consent of instructo
1	To be arranged			Levi
2	To be arranged			Shoemake
593l-1 to 18	Practicum in Teaching of Psychology			
1	To be arranged			Carrie
595-1 to 18	Advanced Seminar			Consent of instructo
1	To be arranged			McHos
2	7:00-10:00 pm	Tu	Wham 301A	Meltze
3	1:30-2:20	M Th	Wham 302	Pi
	7:00-9:00 pm	W	Wham 302	Pi
4	To be arranged			Radtke
599-1 to 9	Thesis			
1	To be arranged			
600-1 to 16	Dissertation			
1	To be arranged			

## RADIO - TELEVISION (R-T)

161-4	Radio-Television Speaking						
	1	8:30-9:20	MTu	ThF	Comm 144	Richte	
251-3	Survey of Broadcasting						
	1	10:30-11:20	M	W	F	Comm 144	Dybvig
260-3	Audio Control Room Practices						
	1	1:30-2:20	M			Comm 144	Criminger
		12:30-2:20	Tu	Th		Comm 144	
310-3	Radio-Television News					Jrnl 103, 202, 303	
	(Cross-listed with Journalism)						
	1	3:30-4:20	M	W	F	Comm 144	Dugas
351-5	Programs and Audiences						251
	1	7:30-8:20	MTuWThF			Comm 144	Dybvig
363-4	Radio Program Production						260
	1	9:30-11:20	Tu			Comm 110	Richte
		6:30-10:00 pm		Th		Comm 110	
364-4	Television Production						251
	1	11:30-12:20	MTuWTh			Comm 108	Aller
373-1 to 2	Advanced Radio Production Laboratory						363 or concurrent
	1	3:30-4:20	Tu	Th		Comm 144	Criminger
374-1 to 2	Advanced Television Production Laboratory						364
	1	4:30-5:20	M			Comm 144	Rochelle
375j-1 to 2	Individual Research Problems						Consent of department
	1	9:30-10:20	M			Comm 144	Dybvig
375n-1 to 2	Individual Production Problems						Consent of department
	1	9:30-10:20		F		Comm 144	Dybvig
385-1 to 2	Radio-TV Special Events						Consent of department
	(Cross-listed with Journalism)						
	1	8:30-9:20		W		Comm 144	Dugas
393-3	Radio, Television, and Society						251, 351, 352
	1	2:30-3:20	M	W	F	Comm 144	Kurtz

RECREATION AND OUTDOOR  
EDUCATION (REC)

201-4	Introduction to Recreation Leadership			
1	7:30-8:20	MTuWTh	M 201	O'Brien
202-4	Organization & Conduct of Recreation Programs			201
1	8:30-9:20	MTuWTh	M 201	O'Brien
220-4	Leadership in Outdoor Recreation			
1	9:30-10:20	MTuWTh	Ag 218	Abernathy
230-4	Recreational Arts & Crafts			
1	9:30-10:20	MTuWTh	M 201	Taylor

\* June 19-August 11

Course No.	Hours Summer	Descriptive Title	Time	Days	Place	Prerequisite Instructor
<b>01-4 Outdoor Programs in School Camping &amp; Outdoor Education ....</b>						
(June 19-30)						
1		1:00-5:00		MTuWThF	Outdoor Ed. Ctr.	Rillo-Knapp
<b>10-3 Social Recreation .....</b>						
1		10:30-11:20		M W F	M 102A	Roe
<b>12-2 to 6 Playground Leadership .....</b>						
1		To be arranged				Franklin
<b>13-2 to 6 Agency Community Center Social Recreation Leadership .....</b>						
1		To be arranged			201, 202 plus 15 hrs Rec	Franklin
<b>15-4 Recreational Dramatics .....</b>						
1		10:30-11:20		MTuWTh	M 201	Taylor
<b>25-3 Construction &amp; Maintenance of Recreation Areas .....</b>						
1		10:30-11:20		MTuWTh	Comm 148	Abernathy
<b>50-4 Principles &amp; Interpretation of Recreation .....</b>						
1		9:30-10:20		MTuWThF	Comm 148	O'Brien
<b>70-4 Recreation in Public Education .....</b>						
1		1:30-2:20		MTuWThF	Comm 148	Ridinger
<b>80-4 Techniques in Camping .....</b>						
1		8:30-9:20		MTuWThF	Ag 218	Abernathy
<b>90-4 to 16 Practicum .....</b>						
1		To be arranged			Consent of instructor	Taylor
<b>10-4 School Camping &amp; Outdoor Education Workshop .....</b>						
(June 19-30)						
1		8:00-12:00		MTuWThF	HEc 122	Rillo, Knapp
<b>30-4 Organization for Community Recreation .....</b>						
1		8:30-9:20		MTuWThF	Comm 148	Ridinger
<b>40-4 Recreation Survey &amp; Planning .....</b>						
1		12:30-1:20		MTuWThF	Wham 301B	Taylor
<b>50-4 Field Problems in Community Recreation .....</b>						
1		To be arranged			450 plus 15 hrs Rec	Freeberg
<b>60-4 Field Problems .....</b>						
1		To be arranged			450 plus 15 hrs Rec	Freeberg

## REHABILITATION INSTITUTE

<b>14-1 to 6 Developing Employment Opportunities .....</b>						
(August 13-24)						
1		7:30-3:20		MTuWThF	To be arranged	
<b>80-2 An Introduction to Rehabilitation .....</b>						
1		9:30-11:20		W	Ag 168	Roberts
<b>81-2 An Introduction to Employment and Developmental Services .....</b>						
1		1:30-3:20		F	Wham 206	Bozarth
<b>19-2 Selection, Placement and Follow-up .....</b>						
1		1:30-3:20		W	Wham 312	Vieceli
<b>55-2 Rehabilitation Counseling of Mentally Retarded .....</b>						
1		9:30-11:20		M	Comm 118	Johnson
<b>76-2 Seminar in Behavior Modification .....</b>						
1		1:30-3:20		M	Wham 312	Sulzer
<b>78-2 Seminar in Correctional Rehabilitation Counseling .....</b>						
1		9:30-11:20		F	Wham 303	Twomey
<b>80-1 to 16 Practicum in Rehabilitation Services .....</b>						
1		To be arranged			Consent of department	
<b>83-1 to 16 Practicum in Behavior Modification .....</b>						
1		To be arranged			Consent of department	
<b>85-1 to 16 Practicum in Rehabilitation Counseling .....</b>						
1		To be arranged			Consent of department	
<b>89-0 to 12 Internship in Rehabilitation .....</b>						
1		To be arranged			Consent of department	
<b>90-1 to 16 Independent Projects .....</b>						
1		To be arranged			Consent of instructor	
<b>91-1 to 16 Research in Rehabilitation .....</b>						
1		To be arranged			Consent of instructor	
<b>91-1 to 16 Research in Rehabilitation .....</b>						
1		To be arranged			Consent of instructor	
<b>99-1 to 9 Thesis .....</b>						
1		To be arranged			Consent of instructor	

## 50 RELIGION (REL)

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite
Summer	Time			Instructor

## RELIGION (REL)

208-3	Bible, Life and Writings of Paul					
1	8:50	M	W	F	R	1 Smith

## SECONDARY EDUCATION (SED)

101-2	Developing Reading & Learning Skills					
	(Cross-listed with Elementary Education)					
1	11:30-12:20	M	W	F	Wham	203 Berger
310-4	History & Principles of Secondary Education					Guid 305
1	7:30-8:20	MTu	ThF	Wham	326	Keefer
2	9:30-10:30	MTu	ThF	Wham	326	Keefer
3	11:30-12:20	MTu	ThF	Wham	326	Keefer
315-3	High School Methods					Guid 305
1	8:30-9:20	M	W	F	Wham	326 Dykhhouse
352a-4 to 16	Secondary Student Teaching					
1	To be arranged in Agriculture					
2	To be arranged in Art					
3	To be arranged in Biology					
4	To be arranged in Business					
5	To be arranged in Chemistry					
6	To be arranged in Economics					
7	To be arranged in English					
8	To be arranged in Foreign Language					
9	To be arranged in General Science					
10	To be arranged in Geography					
11	To be arranged in Government					
12	To be arranged in Health Education					
13	To be arranged in History					
14	To be arranged in Home Economics					
15	To be arranged in Industrial Education					
16	To be arranged in Journalism					
17	To be arranged in Mathematics					
18	To be arranged in Music					
19	To be arranged in Physical Education					
20	To be arranged in Physics					
21	To be arranged in Sociology					
22	To be arranged in Social Studies					
23	To be arranged in Speech					
24	To be arranged in Library Service					
375-2 to 3	Readings in Secondary Education					Guid 305
1	To be arranged					
407-4	The Junior High School					Guid 305
1	*9:30-10:20	MTuWThF	Wham	329		Stephens
490-4	Workshop: Economic Education					
	(August 14-25)					
	(Cross-listed with Economics)					
1	8:30-11:20	MTuWThF	HEC	122		Mees and Martinsek
	1:30-3:20					
505-4	Improvement of Reading Instruction					
1	*1:30-2:20	MTuWThF	Wham	201		Berger
508-4	Trends in Selected Areas of Secondary Education					
	*10:30-11:20	MTuWThF	Wham	326		Mees
518-2	Supervision of Student Teachers					
	(Cross-listed with Elementary Education)					
1	9:30-10:20	MTuWThF	Wham	317		Casey
	(June 20-July 14)					
2	9:30-10:20	MTuWThF	Wham	317		Casey
	(July 17-August 11)					
562-4	High School Curriculum					
1	*11:30-12:20	MTuWThF	Wham	312		Fligor
564-4	High School Principalship					
	(Cross-listed with Educational Administration)					
1	*12:30-1:20	MTuWThF	Wham	303		Stephens
570-4	Extra Curricular Activities in the High School					
1	1:30-2:20	MTuWThF	Wham	329		Mees
575a-2 to 4	Individual Research—Curriculum					
1	To be arranged					
575b-2 to 4	Individual Research—Supervision					
1	To be arranged					
575c-2 to 4	Individual Research—Language Arts					
1	To be arranged					
575d-2 to 4	Individual Research—Science					
1	To be arranged					

\* June 19-August 11



Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
575e-2 to 4	Individual Research—Readings				
1	To be arranged				
575f-2 to 4	Individual Research—Social Studies				
1	To be arranged				
575g-2 to 4	Individual Research—Secondary Education				
1	To be arranged				
575k-2 to 4	Individual Research—Junior High Methods				
1	To be arranged				

## SECRETARIAL AND BUSINESS EDUCATION (SEC)

201a-3	Typewriting	.....			
1	9:30-10:20	TuWThF	Cl 13	Kracht	
201b-3	Typewriting	.....		201a or equivalent	
1	9:30-10:20	TuWThF	Cl 13	Kracht	
201c-3	Typewriting	.....		201b or equivalent	
1	8:30-9:20	TuWThF	Cl 13	Rahe	
221a-4	Shorthand & Transcription	.....			
1	10:30-11:20	MTuWThF	Cl 21	Kracht	
241-1	Duplicating	.....		201a	
1	7:30-9:20	M	Cl 13	Rahe	
242-1	Calculating Machines for Accounting	.....			
1	1:00-2:50	M	Cl 17	Bauernfeind	
304-3	Advanced Typewriting	.....		201c or equivalent	
1	8:30-9:20	TuWThF	Cl 13	Rahe	
324a-4	Advanced Shorthand & Transcription	.....		221c or equivalent	
1	9:30-10:20	MTuWThF	Cl 21	Rahe	
324b-4	Advanced Shorthand & Transcription	.....		324a or equivalent	
1	9:30-10:20	MTuWThF	Cl 21	Rahe	
405-3	Teaching General Business Subjects	.....			
(June 19-July 14)					
1	10:30-12:20	TuWThF	Cl 13	Slaten	
414b-3	Organization & Administration of Cooperative Vocational Business Education	.....		Consent of instructor	
(June 19-July 7)					
1	8:30-10:20	MTuWThF	Cl 17	Bauernfeind	
415-6	Supervised Business Experience & Related Study	.....		Consent of instructor	
(July 10-August 25)					
1	7:30-10:20	MTuWThF	Cl 17	Bauernfeind	
501-2 to 9	Individual Research in Business Education	.....			
1	*To be arranged		Cl 24	Slaten	
505-1	Workshop in Business Education	.....		See Mr. Bauernfeind	
(August 14-15)					
1	8:00-4:00	MTu	Cl 17	Bauernfeind	
510-4	Improvement of Instruction in Secretarial Subjects	.....			
(July 17-August 11)					
1	8:30-11:30	MTuWThF	Cl 17	Slaten	

## SOCIOLOGY (SOC)

301-4	Principles of Sociology .....	Junior standing
1	11:30-12:20 MTuW F Wham 112	Rossel
2	8:30-9:20 MTuWTh L 231	Larson
302-4	Contemporary Social Problems .....	301
1	12:30-1:20 MTuWTh Wham 112	Gold
308-3	Statistics for Social Science .....	Junior standing or consent of instructor
1	11:30-12:20 M W F Wham 319	Blair
332-4	Social Organization .....	301
1	9:30-10:20 M WThF Wham 308	Nall
336-4	Sociology of Rural Life .....	GSB 201b or 301
1	7:30-8:20 MTuWTh Wham 205	Brooks
340-4	The Family .....	GSB 201b or 301
1	7:30-8:20 M WThF Wham 112	Snyder
375-4	Social Welfare as a Social Institution .....	GSB 201b or 301
1	8:30-9:20 MTu ThF Wham 210	Eades
426-4	Social Factors in Behavior and Personality .....	GSB 321 or Psychology 305 or consent of instructor
1	3:30-4:20 MTuWTh Wham 112	Larson
435-4	Social Stratification .....	GSB 201b or 301
1	1:30-2:20 MTuWTh Wham 112	Nall
438-4	Sociology of Occupations and Professions .....	GSB 201b or 301
1	2:30-3:20 MTuWTh Wham 112	Gold
453-4	Social Movements .....	GSB 201b or 301
1	1:30-2:20 MTuWTh M 203B	Patterson

\* June 19-August 11

## 52 SOCIOLOGY (SOC)

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
482-3	Social Work in Selected Agencies			481
1	9:30-10:20	M	L 201	
	9:30-10:20	Tu Th	L 121	
486-1 to 5	Independent Study in Community Development			Consent of instructor
1	To be arranged			Thomas
583-4 to 12	Supervised Field Work in Corrections			Consent of instructor
1	To be arranged			E. Johnson
587-2 to 8	Individual Research in Community Development			Major in Community Development
1	To be arranged			Hawley
591-2 to 6	Individual Research			Consent of instructor and chairman
1	To be arranged			
596-2 to 12	Readings in Sociology			Consent of instructor and chairman
1	To be arranged			
599-2 to 9	Thesis			Consent of chairman
1	To be arranged			
600-1 to 48	Dissertation			Consent of chairman
1	To be arranged			

## SPECIAL EDUCATION (SPE)

410a-4	Problems and Characteristics of the Emotionally Disturbed Child	Psyc 301 or 303, or consent of instructor		
1	*9:30-10:20	MTuWThF	L 101	Shea
410b-4	Problems and Characteristics of the Mentally Retarded Child	Psyc 301 or 303, or consent of instructor		
1	*9:30-10:20	MTuWThF	L 171	
410c-4	Problems and Characteristics of the Gifted Child—Marion, Illinois Junior High School	Psyc 301 or 303, or consent of instructor		
1	*To be arranged			Casey
410d-4	Problems and Characteristics of the Acoustically Handicapped Child	Psyc 301 or 303, or consent of instructor		
1	*9:30-10:20	MTuWThF	Cl 25	Stull
413b-4	Directed Observation of Mentally Retarded Children			Consent of instructor
1	*1:30-3:20	Tu Th	Wham 301A	Rainey
	(additional hrs. arranged)			
414-4	The Exceptional Child	Psyc 301 or 303, or consent of instructor		
1	*7:30-8:20	MTuWThF	Wham 303	Crittenden
2	*10:30-11:20	MTuWThF	Wham 312	Stull
419-4	Communication Problems of the Deaf and Hard of Hearing	Sp Pa 406 or consent of instructor		
	(Cross-listed with Speech Pathology and Audiology)			
1	*9:00-12:00	MTuWThF	Comm 117	Crittenden
420b-4	Methods and Materials for Teaching Mentally Retarded Children	410b or consent of instructor		
1	*7:30-8:20	MTuWThF	Wham 317	Rainey
428-4	Speech Correction for the Classroom Teacher			(Cross-listed with Speech Pathology and Audiology)
1	*12:30-1:20	MTuWThF	Comm 111	
501-4	Special Research Problems	Consent of staff		
1	*To be arranged			
513-4	Organization, Administration & Supervision of Special Classes	Sp E 414		
1	*11:30-12:20	MTuWThF	Wham 321	
517-4	The Atypical Child and Social Agencies	SpE 414 or consent of instructor		
1	*10:30-11:20	MTuWThF	Wham 329	Shea
T518-4	Workshop (The Gifted Child)—Marion, Illinois Junior High School	SpE 414 or consent of instructor		
1	*To be arranged			Casey
577-4 to 12	Practicum in Special Education	410a,b,c, or d, and consent of instructor		
1	*To be arranged			Rainey
580b-4	Seminar: Education of Mentally Retarded Children	SpE 414 or consent of instructor		
1	*8:30-9:20	MTuWThF	Wham 317	
596-4 to 8	Independent Investigation	Consent of department		
1	*To be arranged			

\* June 19-August 11

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
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599-2 to 9	Thesis			Consent of department
1	*To be arranged			

## S P E E C H (SPCH)

102-4	Public Speaking				
1	9:30-10:20	MTuW F	Comm 120	Hibbs	
200-4	Phonetics				
	(Cross-listed with Speech Pathology & Audiology)				
1	8:30-9:20	MTuWTh	Comm 111	Garbutt	
202-3	Principles of Discussion				
1	1:30-2:20	MTu Th	Comm 120	Potter	
209-1	Forensic Activities				
1	To be arranged				
309-1	Forensic Activities				
1	To be arranged				
407b-4	American Public Address				
1	10:30-11:20	MTuWTh	Comm 214	Pace	
422-4	Oral Interpretation of Prose				
1	9:30-10:20	MTuWThF	Comm 122	M. L. Kleinau	
425-3	Techniques of Discussion Leadership				
1	12:30-1:20	M W F	Comm 214	Potter	
427-4	The Secondary School Forensic Program				
1	10:30-11:20	MTuWThF	Comm 122		
449-4	General Semantics				
1	1:20-2:20	MTuWTh	Comm 214	Pace	
T501-10	NDEA Institute in Oral Language				
	(June 19-August 12)				
1	8:00-5:00	MTuWThF	Wham 208	Higginbotham	
504-4	Medieval Rhetorical Theory				
1	7:30-8:20	MTuWTh	Comm 214	Bradley	
510-4	Seminar: Persuasion & Social Control				
1	9:30-10:20	MTuWTh	Comm 214	Micken	
511-3	Teaching the College Speech Course				
1	11:30-12:20	TuWTh	Comm 214	Smith	
524b-3	Seminar: Rhetorical & Public Address				
1	8:30-9:20	MTu Th	Comm 214	Bradley	
530-1 to 4	Research Problems				
1	To be arranged				
599-2 to 9	Thesis				
1	To be arranged				
600-1 to 12	Dissertation				
1	To be arranged				

S P E E C H P A T H O L O G Y A N D  
A U D I O L O G Y (SP & A)

200-4	Phonetics				
	(Cross-listed with Speech)				
1	8:30-9:20	MTuWTh	Comm 111	Garbutt	
318-4	Voice and Cleft Palate				200, 212
1	2:30-3:20	MTu ThF	Comm 111	Brackett	
400-2 to 4	Independent Study in Speech Pathology & Audiology				
	200, 212, 318 or consent of instructor				
1	To be arranged		Comm 105	Pace	
405c-1 to 4	Practicum in Speech and Hearing Therapy				B-average in 200, 212, 318 or consent of instructor
1	4:30-5:20	Tu Th	Comm 111	Pace	
406-4	Techniques & Interpretation of Hearing Tests				416 or consent of instructor
1	1:30-2:20	MTu ThF	Comm 111	Copeland	
414-4	Anatomy & Physiology of Speech and Hearing Mechanism				
	(Cross-listed with Physiology)				Junior standing
1	7:30-8:20	MTuWTh	LS 113	Kaplan	
415-4	Aphasia				412, 414 or consent of instructor
1	9:00-12:00	MTuWThF	LG		
			Comm 111	Pace	
419-4	Communication Problems of Deaf and Hard of Hearing				
	416, 406 or consent of instructor				
1	9:00-12:00	MTuWThF	LG		
			Comm 117	Crittenden	
428-4	Speech Correction for the Classroom Teacher				Junior standing
	(Cross-listed with Special Education)				
1	*12:30-1:20	MTuWThF	Comm 111		

\* June 19-August 11



## 54 SPEECH PATHOLOGY AND AUDIOLOGY (SP &amp; A)

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Summer	Time			
515-1 to 4	Readings in Speech Pathology (Voice Problems)			Graduate standing
1	2:30-4:20	W	Comm 117	Brackett
516-4	Seminar in Psychoacoustics		416, 406, or	consent of instructor
1	2:30-4:20	M Th	Comm 117	Copeland
522d-4	Seminar in Organic Speech Problems			Consent of instructor
1	9:00-12:00	MTuWThF	Little Grassy Comm 113	Koepp-Baker
530-1 to 4	Research Problems			Consent of instructor
1	To be arranged		Comm 105	Hoshiko
533-4	Seminar in Speech Science			Consent of instructor
1	2:30-4:20	Tu F	Comm 117	Hoshiko
599-2 to 9	Thesis			Graduate
1	To be arranged		Comm 105	
600-4 to 12	Dissertation			Graduate
1	To be arranged		Comm 105	

## TECHNOLOGY (TECH)

101a-3	Graphics				
1	7:30-9:20	M W F	Tech A209		
2	9:30-11:20	M W F	Tech A209		
101b-3	Graphics				101a
1	12:30-2:20	M W F	Tech A209		
101c-3	Graphics				101a
1	2:30-4:20	M W F	Tech A209		
300c-3	Application of Fundamental Physical Principles				GSA
1	11:30-12:20	M W F	Tech A120		101a,b, Math 111b
319-3	Industrial Internship				Consent of coordinator
1	To be arranged				
GSA 358a-3	Analysis of Physical Systems (See General Studies Area A for schedule)				101, Math 111b
GSA 358b-3	Analysis of Physical Systems (See General Studies Area A for schedule)				101, Math 111b

## THEATER (THEA)

208-1 to 3	Dramatic Activities				
1	*2:30-3:20	M W	Comm 161		Payne & Zoeckler
308-1 to 3	Dramatic Activities				
1	*2:30-3:20	M W	Comm 161		Payne & Zoeckler
322-12	Practicum in Theater				Consent of department
1	8:40 am-10:10 pm	MTuWThF	Comm 137		
402a-4	Play Directing				
1	*7:30-8:30	MTuWThF	Comm 161		McLeod
402b-4	Play Directing				
1	*12:30-1:20	MTuWThF	Comm 161		Moe
409-4	High School Theater & Its Production Problems				
1	*8:30-9:20	MTuWThF			Zoeckler
411-4	Advanced Playwriting				Stock Company members only
1	3:30-4:20	MTuWTh	Comm 137		Moe
505-4	Tragic Theater				
1	1:30-3:30	MTuWTh	Comm 110		Abrams
519-1 to 12	Practicum in Theater				Consent of department
1	8:40 am-10:10 pm	MTuWThF	Comm 137		
526-3	Seminar in Theater Arts				
1	9:00-12:00	S	Comm 110		Marshall
530-1 to 4	Research Problems in Theater				
1	To be arranged		Comm 161		
599-2 to 9	Thesis				
1	To be arranged		Comm 137		

## ZOOLOGY (ZOO)

102-5	General Invertebrate Zoology				GSA 201c
1	7:30-8:20	Tu Th	LS 130		
	7:30-9:20	M W F	LS 130		

\* June 19-August 11

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
103-5	General Vertebrate Zoology			GSA 201c
1	7:30-8:20	Tu Th	LS 208	
	7:30-9:20	M W F	LS 208	
300-5	Vertebrate Embryology			202
1	9:30-10:20	M W	LS 205	
	7:30-9:20	M W F	LS 213	
310-5	Animal Ecology			102, 103
1	1:30-2:20	M W F	L 221	
	12:30-4:20	Tu	LS 204	
2	1:30-2:20	M W F	L 221	
	12:30-4:20	Th	LS 204	
321-5	Histological Technique in Zoology			1 year biology
1	11:30-12:20	Tu Th	LS 205	
	10:30-12:20	M W F	LS 209	
382-1/2 to 1 1/2	Senior Seminar			Senior standing
1	9:30-10:20	F	M 201	
402-4	Natural History of Invertebrates			1 year Zoology including 102
1	*12:30-1:20	M W F	L 231	
	1:30-4:20	M W	LS 130	
404-2 to 8	Zoology Field Studies			
1	To be arranged			
406-4	Protozoology			1 year Zoology including 102
1	1:30-2:20	Tu Th	L 221	
	2:30-4:20	Tu Th	LS 213	
409-5	Histology			202
1	7:30-8:20	Tu Th	LS 213	
	8:30-11:20	Tu Th	LS 213	
414-4	Fresh-water Invertebrates			1 year Zoology including 102
1	*1:30-2:20	M W F	L 101	
	2:30-4:20	F	LS 130	
	7:30-11:20	S	LS 130	
463-4	Game Management			15 hrs Biology & consent of instructor
1	12:30-1:20	Tu Th	Comm 116	
	7:30-11:20	S	LS 204	
502-2	Recent Developments in Biological Sciences			
	(Cross-listed with Botany)			
1	*10:30-11:20	M W F	LS 205	
540-3	Factors in Animal Reproduction			Consent of department
1	12:30-1:20	M W F	LS 205	
579-4	Animal Behavior			Consent of department
	(Cross-listed with Animal Industries)			
1	*7:30-8:20	MTuW F	LS 205	
	8:30-11:20	W	LS 204	
582a-1/2	Graduate Seminar			Consent of department
1	9:30-10:20	F	LS 205	
596-3 to 12	Special Research			Consent of department
1	To be arranged			
599-2 to 9	Research and Thesis			Consent of department
1	To be arranged			
600-3 to 12	Research and Dissertation			Consent of department
1	To be arranged			

\* June 19-August 11

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
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## *Vocational-Technical Institute (VTI)*

### GSA

101a-3	Introduction to Physical Science .....				
	A1	12:30-1:20	M	W	F M3-101
	A2	1:30-2:20	M	W	F M3-101
	TA3	11:30-12:20	M	W	F M3-101

### GSB

201c-3	Culture, Society, Behavior .....				
	A1	10:30-11:20	M	W	F H1-143
	A2	1:30-2:20	M	W	F H1-143
	TA3	3:30-4:20	M	W	F H1-143
	TA4	7:30-8:20	M	W	F H1-143
211b-3	Political Economy .....				
	A1	9:30-10:20	M	W	F M1-107
	A2	12:30-1:20	M	W	F M1-107
	TA3	2:30-3:20	M	W	F M1-107

### GSD

101-3	English Composition .....				
	(Aviation)—Sect. 1 only				
	A1	7:30-8:20	M	W	F Av Tech 1
	A2	1:30-2:20	M	W	F H3-153
	TA3	2:30-3:20	M	W	F H3-153
	TA4	9:30-10:20	M	W	F H3-153
102-2	English Composition .....				
	A1	2:30-3:20	M	W	F H3-154
	TA2	12:30-1:20	M	W	F H3-154
	TA3	7:30-8:20	M	W	F H3-154
103-3	Oral Communication of Ideas .....				
	A1	12:30-1:20	MTuWTh		H9-101
	A2	2:30-3:20	MTuWTh		H9-101
114a-3	College Algebra & Trigonometry .....				
	A1	1:30-2:20	M	W	F H3-151
	TA2	3:30-4:20	M	W	F H3-151
114c-3	College Algebra & Trigonometry .....				
	A1	3:30-4:20	M	W	F H3-153

### VTI A

101a-5	Auto Laboratory .....				
	1	7:30-10:20	MTuWThF	L2-108	L. D. Willey
125a-5	Auto Theory .....				
	1	10:30-11:20	MTuWThF	L2-105	L. D. Willey

### VTI B

100-3	Clerical Procedure .....				
	1	11:30-12:20	M	W	F F1-103
101c-4	Accounting .....				
	1	7:30-8:20	MTuWThF	F1-111	Cundiff
	t2	10:30-11:20	MTuWThF	F1-111	
104-5	Secretarial Accounting .....				
	1	8:30-9:20	MTuWThF	F1-111	
109-3	Punched Card Preparation .....				
	1	11:30-12:20	MTuWThF	H4-136	
126-3	Fundamentals of Business .....				
	1	7:30-8:20	M	W	F F1-103
	t2	1:30-2:20	M	W	F F1-111
226a-4	Business Law .....				
	1	1:30-2:20	MTuWTh	F1-103	Cundiff
	t2	2:30-3:20	MTuWTh	F1-103	
226b-4	Business Law .....				
	1	8:30-9:20	MTuWThF	F1-103	Cundiff
227-5	Office Administration .....				
	1	9:30-10:20	MTuWThF	F1-111	



Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
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### VTI C

101a-7	Cosmetology Lab			
1	7:30-10:30	MTuWThF	N1-101	Cassidy
	11:30-2:30	MTuWThF	N1-101	Cassidy
101d-7	Cosmetology Lab			
1	10:30-1:30	MTuWThF	N1-107	Goss
	2:30-5:30	MTuWThF	N1-101	Goss
2	7:30-10:30	MTuWThF	N1-107	Hill
	1:30-4:30	MTuWThF	N1-107	Hill
125a-5	Cosmetology Theory			
1	2:30-3:30	MTuWThF	N1-106	Blanton
125d-5	Cosmetology Theory			
1	9:30-10:30	MTuWThF	N1-106	Blanton
2	11:30-12:30	MTuWThF	N1-106	Blanton

### VTI D

101a-7	Graphics			
1	8:30-11:20	MTuWThF	M1-101	Beauchamp
110a-5	Architectural Drafting			
1	7:30-11:20	M W F	M1-108	
121b-4	Architectural Design			
1	7:30-10:20	M W F	M1-113	Lougeay
146a-3	Architectural Freehand Graphics			
1	7:30-10:20	Tu Th	M1-108	
151-4	Materials and Methods of Construction			
1	7:30-11:20	Tu Th	M1-113	
1	To be arranged	W		
153-4	Mechanics and Strength Materials			
1	12:30-1:20	MTuWTh	M1-112	Lougeay
175a-3	Technical Drawing			
	(Aviation only)			
1	11:30-12:20	MTuWThF	M1-101	Beauchamp
2	2:30-3:30	M W F	Av Tech 3	
	3:30-4:20	M W		

### VTI E

100a-5	Automatic Data Processing Mathematics			
1	9:30-10:20	MTuWThF	H4-233	
101a-3	Automatic Data Processing Machines			
1	7:30-8:20	MTuWThF	H8-140	
			H4-137	
103-5	Computer Programming			
1	12:30-2:20	MTuWThF	H8-235	Robb
			H4-233	Robb
104-3	Data Processing Applications			
1	10:30-11:20	WThF	H4-137	
			H8-140	
107-2	Data Processing Information			
1	10:30-11:20	MTu	H8-140	

### VTI F

101a-5	Product Woodwork Machines			
1	9:30-12:20	MTuWThF	L4-108	Osborn
125a-3	Production Woodworking Machines			
1	8:30-9:20	M W F	L4-108	Osborn
128-4	Wood Technology			
1	7:30-8:20	M W	L4-106	Rice
	7:30-9:20	Tu Th	L4-106	Rice
129-2	Wood Finishing			
1	1:30-2:20	M W F	L4-106	Osborn

### VTI G

102-3	Technical Report Writing			
1	3:30-4:20	M W F	Av Tech 2	
2	1:30-2:20	M W F	H3-154	
106-0	Elementary Mathematics			
1	11:30-12:20	MTuWTh	H3-151	
2	10:30-11:20	MTuWTh	H3-151	
107-3	Technical Mathematics			
	(Aviation only)			
1	2:30-3:20	M W F	H3-151	

Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
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**107-3 Technical Mathematics**

(Aviation only)

2	9:30-10:20	M W F	Av Tech 2	
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**115a-3 Introduction to Chemistry**

1	1:30-3:20	M W	F3-144	
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**115b-3 Introduction to Chemistry**

1	10:30-11:20	M W F	F3-144	
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**141-5 Introduction to Physiology**

1	12:30-2:20	Tu Th	L3-109	
	12:30-1:20	F	L3-109	

**VTI J****101a-6 Presswork Lab—Hand Platen**

1	8:30-11:20	MTuWThF	L3-110	Cornell
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**125a-3 Presswork Theory**

1	7:30-8:20	M W F	L3-109	Cornell
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**VTI K****101a-3 Calculating Machines**

1	9:30-10:20	MTuWThF	F1-113	Johnston
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2	11:30-12:20	MTuWThF	F1-113	
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T3	2:30-3:20	MTuWThF	F1-113	
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**101b-3 Calculating Machines**

1	10:30-11:20	MTuWThF	F1-113	Johnston
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T2	2:30-3:20	MTuWThF	F1-113	
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**VTI L****101-6 Aircraft Reciprocating Powerplants**

1	8:30-9:30	M W F	Av Tech 1	Redmond
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	9:30-12:30	M W F	Av Lab	Redmond
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**102-6 Carburetion & Lubrication Systems**

1	1:30-2:30	M W F	Av Tech 2	Schafer
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	8:30-12:30	Tu Th	Av Lab	Schafer
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**103-6 Aircraft Electricity—Generator & Alternator**

1	7:30-8:30	MTuWThF	Av Tech 1	DaRosa
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	8:30-10:30	M W F	Av Lab	DaRosa
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**104-5 Propellers**

1	9:30-10:30	Tu Th	Av Lab	Redmond
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	11:30-1:30	Tu Th	Av Lab	Redmond
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	8:30-9:30	Tu Th	Av Tech 2	Redmond
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	1:30-2:30	F	Av Tech 1	Redmond
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**105-4 Aircraft Instruments**

1	11:30-12:30	W	Av Tech 2	Schafer
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	3:30-4:30	Tu Th	Av Tech 1	Schafer
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	1:30-3:30	Tu Th	Av Lab	
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**106-5 Aircraft Ignition—Starting System**

1	7:30-8:30	W	Av Tech 3	
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	10:30-11:30	Tu Th	Av Tech 2	
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	7:30-10:30	Tu Th	Av Lab	
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**108-6 Jet Propulsion Power Plant**

1	10:30-11:30	W	Av Tech 2	DaRosa
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	12:30-1:30	M W F	Av Tech 1	DaRosa
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	12:30-3:30	M W F	Av Lab	
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**109-4 Powerplant Testing**

1	10:30-11:30	M	F	Av Tech 2	Schafer
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	7:30-10:30	M	F	Av Lab	Schafer
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**VTI M****101a-5 Machine Tool Lab**

1	8:30-11:20	MTuWThF	L1-101	Muhich
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**125a-3 Machine Tool Theory**

1	11:30-12:20	M W F	L1-105	
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**176a-3 Manufacturing Processes**

1	12:30-1:20	M W F	L1-105	
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**VTI N****101-3 Art Analysis**

1	7:30-8:30	M W F	L3-119	
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**125-10 Techniques**

1	8:30-11:20	M W F	L3-119	
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	7:30-11:20	Tu Th		
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**140-10 Ad & Story Illustration**

1	8:30-11:20	M W F	L3-120	Boza
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Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
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7:30-11:20 Tu Th

## VTI P

102-7	Practical Nursing—Role I				
1	8:00-12:00	M	H5-210	Mitchell	
	8:00-12:00	TuWThF	Hospitals	Mitchell	
	1:00-4:00	MTuWThF	H5-210	Mitchell	
103a-6	Clinical Nursing & Theory				
1	8:00-12:00	M W F	Hospital		
	8:00-4:00	Tu Th	Hospital		
	1:00-4:00	M W F	H5-210	Alcorn	
103c-12	Clinical Nursing & Theory				
1	8:00-12:00	M W F	Hospital	Chiodini	
	8:00-4:00	Tu Th	Hospital		
	1:00-4:00	M W F	H9-210		

## VTI R

124-4	Introduction to Retailing				
1	8:30-9:20	MTuWThF	F1-106	Thompson	
127a-3	Salesmanship				
1	1:30-2:20	M W F	F1-106	Thompson	
127b-3	Salesmanship				
1	1:30-2:20	M W F	F1-106	Thompson	
176-3	Product Analysis				
1	10:30-11:20	M W F	F1-106	Thompson	
179-5	Retail Math				
1	9:30-10:20	MTuWThF	F1-106	Elder	
201a-8	Cooperative Work Experience				
1	To be arranged			Burnett	
2	To be arranged			Elder	
205-4	Merchandising Principles				
1	2:30-3:30	MTuWTh	F1-106	Elder	

## VTI S

101a-3	Typewriting				
1	7:30-8:20	MTuWThF	F1-121		
101b-3	Typewriting				
1	1:30-2:20	MTuWThF	F1-102		
104a-6	Shorthand				
1	10:30-12:20	MTuWThF	F1-121		
104b-6	Shorthand				
1	10:30-12:20	MTuWThF	F1-107		
107-3	Filing & Duplicating				
1	9:30-10:20	MTuWThF	F1-121		
2	1:30-2:20	MTuWThF	F1-121		
3	2:30-3:20	MTuWThF	F1-121		
205a-3	Typewriting				
1	12:30-1:20	MTuWThF	F1-107		

## VTI T

101a-7	Electronics Lab—AC-DC				
1	8:30-11:30	MTuWThF	M3-109		
101c-7	Electronics Lab—Transmitter & Receiver				
1	8:30-11:20	MTuWThF	M3-107	Schultz	
125a-5	Electronics Theory—AC-DC				
1	1:30-2:20	MTuWThF	M3-110		
125c-5	Electronics Theory—Transmitter & Receiver				
1	12:30-1:20	MTuWThF	M3-110	Schultz	

## VTI U

101a-3	The Funeral History				
1	1:30-2:20	M W F	L3-109	Thorsell	
101b-3	The Funeral Customs				
1	2:30-3:20	M W F	L3-109	Thorsell	
275-10	Funeral Service Internship				
1	To be arranged		To be arranged	Hertz	
280-2	Funeral Service Seminar				
1	To be arranged		To be arranged	Hertz	

## VTI W

101a-5	Oxy-Acetylene Lab				
1	7:30-10:20	MTuWThF	M4-107		



Course No.—Hours Summer	Descriptive Title Time	Days	Place	Prerequisite Instructor
125a-5	Oxy-Acetylene Theory			
1	10:30-11:20	MTuWThF	M4-102	
VTI Y				
125c-3	Dental Prosthetics Theory			
1	7:30-1:30	M W F	E1-110	Bykowski
101c-6	Dental Prosthetics—Lab			
1	8:30-12:20	M		Bykowski
	8:30-11:20	W F	F3-127	Bykowski
	7:30-11:20	Tu Th		
125a-3	Dental Prosthetics Theory			
1	7:30-8:20	M W F	F1-106	Leebens
101a-6	Dental Prosthetics—Lab			
1	8:30-12:20	M		Leebens
	8:30-11:20	W F		
	7:30-11:20	Tu Th	F3-128	Leebens
209-5	Dental Hygiene Clinic			
1	12:30-3:20	MTuW F	F3-129	
	12:30-1:20	Th	F3-120	Leebens
2	12:30-3:20	MTuW F	F3-132	
	12:30-1:20	Th	F3-132	
3	10:30-11:20	Th	F3-132	
	8:30-11:20	MTuW F	F3-132	
218a-2	Clinical Dental Roentgenology			
1	1:30-3:20	Th	F1-110	Bushee
2	8:30-10:20	Th	F1-110	Bushee
113b-3	Restorative Dental Materials			
1	8:30-11:20	Th	F3-144	Vandever
2	12:30-3:20	Th	F3-144	Vandever



Carbondale, Illinois 62901  
Return Requested

Carbondale, Illinois



*Schedule of Classes*  
*Edwardsville Campus*  
*Summer, 1967*



**Southern Illinois  
University Bulletin**

## This Bulletin

Contains the schedule of classes to be offered by the Edwardsville Campus for the summer quarter of 1967 at Edwardsville and East St. Louis. No classes will be held at the Alton Center. It also provides information relative to admission, advisement, registration, and fees.

# Schedule of Classes

*Edwardsville Campus*  
*Summer Quarter, 1967*

SOUTHERN ILLINOIS UNIVERSITY BULLETIN  
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# University Calendar

## *Summer Quarter, 1967*

Quarter Begins	Monday, June 19
Independence Day Holiday	Monday, July 4
Final Examinations	August 28–September 2
Commencement	Friday, September 1

## Registration Calendar

STUDENTS WILL REGISTER FOR CLASSES SCHEDULED AT ALL LOCATIONS AT THE ENROLLMENT OFFICE, ROOM 1302, PECK BUILDING, EDWARDSVILLE CAMPUS.

May 15–	Registration by appointment. Continuing
June 2:	students are given appointment at time of Spring Registration. New and reentering students are given appointment when admitted.
	Monday–Friday: 8:00 A.M. to 11:30 A.M. and 1:00 to 3:30 P.M.
	Tuesday: open until 6:30 P.M. (except May 30—Holiday.)
	Saturday: 8:00 A.M. to 11:00 A.M.
June 14–16:	Registration. No appointment necessary. 10:00 A.M. to 6:30 P.M.
June 17:	Registration. No appointment necessary. 8:00 A.M. to 11:00 A.M.
June 19:	Registration. No appointment necessary. 8:00 A.M. to 6:30 P.M.
June 19:	Summer quarter begins. Evening classes (4:30 P.M. or later) begin.
June 20:	Day classes begin.
June 26:	Last day to add classes.
June 30:	Last day to be eligible for a refund of fees.
July 4:	Independence Day Holiday.
July 17:	Last day to withdraw from class without receiving a grade.
August 14:	Last day to withdraw from school.
August 28–	
September 2:	Final examinations.

# General Information

## 1

The Edwardsville Campus of Southern Illinois University has scheduled a summer quarter, June 19 to September 2. Courses designed specifically to meet the needs of teachers are scheduled for shorter periods with the majority planned to meet for 8 weeks.

The Edwardsville Campus offers courses leading toward associate, bachelor's, and master's degrees in selected fields.

A variety of course offerings have been scheduled to meet the specific needs of (1) teachers in service, (2) freshmen—beginning and refresher courses, (3) upper-classmen—basic requirements, (4) graduate students, and (5) liberal arts graduates and individuals on temporary certificates desiring teacher certification.

For additional information, write to the Admissions Office, Southern Illinois University, Edwardsville, Illinois 62025.

## ADMISSION

Application for admission to the summer session should be initiated with the Admissions Office on or before June 1 to permit all necessary processing work to be completed by the start of the session. A general admission requirement is the filing of a transcript of record covering all previous high school and college work. Transcripts should be mailed to the Admissions Office from the institution(s) attended and should reach the Admissions Office prior to June 8, 1967.

An undergraduate student attending another institution who expects to graduate therefrom and who desires to attend here during the summer only will be admitted as an unclassified student on the basis of a letter of good standing from the registrar of the institution the student is attending. The letter of good standing should be sent directly to the Admissions Office in Edwardsville and must be received prior to registration. The unclassified student's application should be submitted to the Admissions Office by June 1, 1967. A high school senior who ranks in the lowest third (lower 60 percentiles for out-of-state students) of his graduating class who is permitted to enter (on scholastic probation) for the summer quarter must register for 8 hours or more in order to continue in attendance during the fall quarter and must earn a C average or above during the summer quarter.

A student attending the Carbondale Campus spring quarter who plans to attend the Edwardsville Campus during the 1967 summer session must initiate his registration process by contacting the Admissions Office at Edwardsville.

### *S O C I A L   S E C U R I T Y   N U M B E R*

Each student seeking admission to the University will need to present a social security number for identification purposes. Any local social security office can provide assistance in obtaining a number or replacing a lost card. At Alton the social security office is in the Germania Savings Building, 543 East Broadway; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment office, 111 West Vandalia, provides social security information.

### *R E Q U I R E D   T E S T S*

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in February and May. Information and application blanks are normally available through the high school guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores, which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

### *R E G I S T R A T I O N*

Registration for all students currently enrolled or who have been accepted for admission will take place at the Enrollment Center of the Edwardsville Campus. All General Studies students must make up their schedule with approval of General Studies Advisement Office.



Recent changes have been made in the General Studies Program which result in reduced loads. All students should secure the help of General Studies Advisement Office to learn of these changes.

### ACADEMIC LOAD

The normal student load for the summer quarter is 16 hours. Except by permission of the chief academic adviser of the center or by the head of his division, no student may enroll for more than 18 hours of credit per quarter. A student is considered a full-time student during the summer quarter if he carries 12 or more hours.

### F E E S

An Illinois undergraduate student taking more than 8 hours pays the following fees each quarter.

Tuition .....	\$42.00
Student Activity Fee .....	10.50
University Center Fee .....	5.00
Book Rental Fee .....	8.00
Student Welfare and Recreation Fund .....	15.00
	<hr/> \$80.50

An out-of-state student pays an additional \$130.00 tuition.

A graduate student does not pay the book rental fee because he buys his books.

A student taking 8 hours or fewer pays half tuition and book rental fee, full university center fee, and has an option on paying the student activity fee. Once an option has been made at the time of registration as to whether or not to pay the activity fee, such option is irrevocable.

Other special fees or deposits will be assessed when applicable.

Students attending under state teacher-education, military, or general-assembly scholarships are required to pay the university center fee and the book rental fee.

### PROGRAM CHANGES

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class. A student is officially registered only for those courses appearing on his registration cards. Any change therefrom can be made only after fees are paid and must be made through an official program change. A student is considered officially registered after he has cleared his payment of fees at the Bursar's Office.

A program change must be made in order to drop or add a course. A student may not drop a course merely by stopping attendance. If a student desires to drop a course during the second, third, or fourth week of a quarter, the change will be approved only when the

reasons appear valid. If a student desires to drop a course after the fourth week, the change will be approved only under unusual conditions. In the last three weeks changes will be approved only in extreme emergencies.

A General Studies student desiring to make a program change must secure approval of the General Studies Advisement Office. He, and any other student desiring to make a program change, will then go to the Enrollment Center. (Starting the second week of the quarter an evening student at East St. Louis may initiate his request to drop a course by going to the General Office in East St. Louis.) He is required to present his fee receipt program card and must complete the following procedure. After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. A student has not completed his program change until he presents it to the Enrollment Center. No change is official until the preceding procedure is completed.

## WITHDRAWAL FROM SCHOOL

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action.

No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office by June 30, 1967. See the registration calendar for specific dates concerning withdrawal and refunding of fees.

## STUDENT RESPONSIBILITY

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Registrar's Office. Responsibility for errors in program or in interpretation of regulations of the University rests entirely with the student.

## GRADUATION

Each student planning to graduate at the summer commencement must apply for graduation at the time of registration for summer classes. All applications for graduation must be received by June 21, 1967, by the Registrar's Office.

## **STUDENT EMPLOYMENT**

Students interested in part-time employment on campus during the summer should make early application to the Office of Student Employment, Southern Illinois University, Edwardsville, Illinois.

## **HOSPITALIZATION**

Blue Cross and Blue Shield In-hospital Insurance is offered to all students paying the activity fee. Cost is \$5.60 per quarter for single and \$14.70 per quarter for family plan. This is available at the time of registration.



# Workshops and Special Programs

2

*Music Education, MUS 453-4 to 6, Workshop in Common Learnings in Music, June 19-July 13.*

This workshop will be designed to explore and emphasize the commonality of learning concepts and philosophies of Music Education as evidenced by the Jacques-Dalcroze Eurhythmics, the Suzuki-Kendall approach to study of violin, the Carl Orff and the Zoltan Kodaly methods of use of instruments, bodily movement and approaches to notation. Other related areas of learning will be explored. Intensive work will be done in each of these several areas and in-depth laboratory experiences. Each member of the workshop will participate in the learning procedures of each area and through research explore their commonalities of the learning concepts. Recognized authorities in each of these areas will serve as consultants and be available for conferences. For further information, write to Dr. Lloyd G. Blakely, Chairman of Faculty of Music, Southern Illinois University, Edwardsville, Illinois 62025.

*Art Workshop for Boys and Girls Ages 7 to 11 Years, Tuesday and Thursday afternoons, 2-4 P.M., June 13-August 3. Fee—\$12.00. (No academic credit.)*

The class will offer an opportunity for exploration and experimentation in a variety of materials. The motivation will be varied and in keeping with individual needs as well as group activity. When possible, the class will be divided into small groups by ages and compatibility of interest. The emphasis will be on the development in the individual of his creative power through art activity. The class will be observed by members in the adult class of Art Education 300a. The workshop will meet in SL 0209. For further information, contact Mrs. Evelyn T. Buddemeyer, 692-3076.

*Administrators' Workshop, ED AD 434-4, August 21-September 1.*

This workshop is designed to present timely administrative problems, thoroughly analyzed and studied on a workshop basis. Professional resource persons will be used as authoritative consultants. The following topics will be covered, one each day: 1. Collective Bargaining in Public Schools; 2. Overview of National Assessment Proposals; 3. Review of Illinois Task Force Recommendations; 4. What Administrators Must Know About the Inner City;

5. Computer Assisted Instruction; 6. Analysis of Recent Instructional Innovations; 7. Finding Personnel in Late August; 8. Some School Building Innovations; 9. Changes in State Fiscal Reports; 10. Guidelines for the Course. Persons wishing to enroll for conference only may join the group through University Extension. Special consideration on an individual basis will be given to administrators facing school opening. For further information, contact Dr. Robert G. Andree, 692-3336.

*National Science Foundation Mathematics Institute, June 19–August 11.*

This eight-week institute for high school teachers has been planned specifically to meet the subject matter needs of teachers who have been out of college for a number of years. Each teacher may take courses giving 10 hours of credit in mathematics that count toward a Master of Science in Education degree. In addition to the regular activities of the Institute, a series of lectures is planned to bring noted speakers from both Europe and the United States before the teachers in attendance.

*Workshop in Current Problems in Secondary Education, ED S 591, August 14–25.*

Secondary Education and Junior College Education Workshop. (a) Secondary Education—Designed primarily to help high school administrators and supervisors to work effectively, with the help of resource personnel, on the most urgent problems confronting their schools. (b) Junior College Education—Designed primarily to assist leaders in the Junior College to meet the urgent demands confronting this comparatively new educational institution.

*Workshop in Organization and Administration of Community Recreation, PE 365-2, afternoons, August 14–19, conference fee of \$10.00 for those who do not wish credit.*

A practical study will be made of the problems related to organizing and administering a community recreation program; particular attention will be given the playgrounds and community centers. Sessions will be devoted to facilities and equipment, setting up the program, budgeting and financing, promoting, selecting and supervising the staff. There will be opportunities for those attending the conference to visit facilities and observe programs in operation.

*Workshop in Sex Education in the Elementary School, H ED 470-3, afternoons, July 10–22, conference fee of \$15.00 for those who do not wish credit.*

The workshop is designed to encourage elementary school teachers to integrate sex education concepts into their teaching program. Current theories and knowledge concerning the psycho-social aspects of the maturation process will be related to the content used for teaching pupils at various grade levels. Specialists in the areas of

psychology, public health, and social welfare offer a multi-discipline approach to help teachers plans a program based upon the characteristics and needs of pupils.

*Workshop in Driver Education and Traffic Safety, H ED 415s-3, afternoons, August 14-19, conference fee of \$15.00 for those who do not wish credit.*

Course designed for pre-service and in-service teachers of driver education and traffic safety. Individual and group problems will be treated. Lectures by safety authorities, demonstrations, field trips, audio-visual materials, and individually supervised research in special problem areas.

*Workshop in Safety Education, H ED 480s-4, mornings, August 14-19, conference fee of \$20.00 for those who do not wish credit.*

Course for in-service teachers, nurses, administrators, advanced students, and others interested in safety education as it applies to the public school and the community. Individual problems, lectures, demonstrations, films, field trips and individual group study in special areas of interest.

*Workshop in Methods and Materials for Teaching Physical Education Activities in the Elementary School, PE 350-4, July 17-August 4, conference fee of \$20.00 for those who do not wish credit.*

For supervisors and teachers of physical education. Curriculum planning based on grade characteristics and educational philosophy, presentation of skills including skill tests, lead-up games, stunts and tumbling, games of low organization, creative rhythms, singing games, and folk dance.

*Physical Fitness Workshop for Older Youth. August 14-19. Conference fee of \$7.50. No credit.*

The purpose of this program is to condition the student through physical recreation, developing his coordination, agility, flexibility, strength, balance, and cardio-respiratory endurance. The program will emphasize the application of isotomic and isometric exercises. The program will also stress scientific training; the student will then have an opportunity to make scientific corrections of past injuries in order to prevent their recurrence. This workshop is designed for boys and girls in grades nine through twelve.

*Physical Fitness Workshop for Elementary School Age Children. August 21-26. Conference fee of \$7.50. No credit.*

The primary purpose of this program is to provide fun and games for children through participation in selected recreational activities. The children will be exposed to many new games and innovations in the area of elementary physical education; primarily outdoor activ-



ities will be emphasized. The program will be for second and third grade boys and girls and boys in grades four through eight.

*Core requirements for Master of Science in Education, ED AD 554-4, Contrasting Philosophies of Education, and ED AD 560-4, Curriculum.*

Both courses meet certain core requirements for candidates seeking a Master of Science in Education degree with a concentration in any of the following fields: Elementary Education, Guidance, Administration, Supervision, Special Education, and Secondary Education. Section 001 of Contrasting Philosophies of Education and Section 002 of Curriculum are offered as a block of time and are designed for students who can come to the campus two days a week, Monday and Wednesday.

## **INTERNATIONAL FIELD STUDIES, ED AD 490-4**

Each of the following twenty-two day traveling field seminars will combine professional study and cross-cultural experiences. Included will be lectures by members of national ministries of education and universities, visits to selected schools and educational institutions, conferences with local educators and community leaders, study and analysis of national systems of education, and independent study of a particular culture.

Overseas transportation will be by air. Local travel will be by rail, steamer, or motor coach.

Applications for a field seminar should be made to the Director of International Field Studies, Education Division, Southern Illinois University, Edwardsville, Illinois 62025 by March 15, 1967, including a deposit of \$85.00 made payable to Southern Illinois University. Estimated expenses, not including tuition and fees, are listed under each field seminar.

*Southern European Seminar, June 7-June 28, Professor Dale Wantling, \$842.*

Countries included in this Southern European seminar will be France, Switzerland, Monaco, Italy, Yugoslavia, and Austria. This seminar complements the successful "SIU in Northern Europe" seminar of June, 1966. Special emphasis will be placed on local and regional educational problems in their cultural context.

*Latin American Seminar, June 12-July 2, Professor Francis Villemain, \$875.*

In addition to rural side trips, which includes visits to several archeological sites and the more important shrines and temples, participants will visit major cities of Mexico City; Guatemala City; San Jose; Costa Rica; Panama City; Bogota, Colombia; and Kingston, Jamaica. Travel from country to country is by air.

Time will be divided between visits to representative

schools and institutions, dinner meetings and talks with local educators, consultation with AID representatives, and extension tours designed to promote greater understanding of the culture.

*Eastern European Seminar, July 12–August 2, Dean Howard D. Southwood, \$873.*

Travel for this seminar includes Amsterdam; Rhine Valley, Switzerland; Zagreb, Yugoslavia; Budapest, Hungary; Vienna, Austria; Prague, Czechoslovakia; and both East and West Berlin. Two-day workshops, held jointly with local educators, will be conducted in several of the countries.

*School Supervision Seminar, July 19–August 9, \$878.*

Study for this seminar begins in London; from there to Holland and through Germany, including East and West Berlin. The itinerary continues to Prague, Czechoslovakia; Zagreb, Yugoslavia; Venice and Milan, Italy; and then to Lucerne, Switzerland. The concluding visit will be in Paris, France.

Opportunities to study comparatively the problems of and techniques and procedures in teacher evaluation, classroom visitation, professionalization, and related concerns will be provided in selected European urban centers.

*Instructional Materials Seminar, August 3–August 24, Professor Boyd Mitchell, \$869.*

Participants will study and visit approximately eight instructional materials centers. From Amsterdam to Hamburg and then to Denmark via steamer, the group will examine various media, equipment, and materials. The itinerary continues from Copenhagen through East Germany to West Berlin. After a tour of East Berlin, the seminar will move to Prague, Czechoslovakia, and then to Munich. Included is the trip through the Bavarian Alps to Austria, Liechtenstein, and Switzerland. The final visit is in Paris.

For further information on any of the seminars, contact Professor Henry T. Boss, Education Division, Southern Illinois University, Edwardsville 62025.

# Schedule of Classes

3

*The University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.*

## EXPLANATION OF THE SCHEDULE

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:  
**Bold-Face Line:** The course's identification number is followed by the number of quarter hours of credit and the descriptive title. Special registration information or other remarks about the course may appear on a second bold-face line.

**Light-Face Lines:** The first column lists the section numbers (first digit always 0) for classes offered at Edwardsville; the second lists sections (first digit always 4) offered at East St. Louis. Following each section number are the time the class begins (between 7:00 A.M. and 4:20 P.M. for daytime classes) and the time it ends. The section number of each evening class has the letter E prefixed. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

000-099 Courses not properly falling in the following categories

100-199 For freshmen

200-299 For sophomores

300-399 For juniors and seniors

400-499 For seniors and graduate students

500-600 For graduate students only

Students registering for courses listed as "Arranged" should consult the instructor indicated, or the head of the division if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

ESL —East St. Louis Center

PB —John Mason Peck General Classroom Building, Edwardsville

LB —Lovejoy Memorial Library, Edwardsville

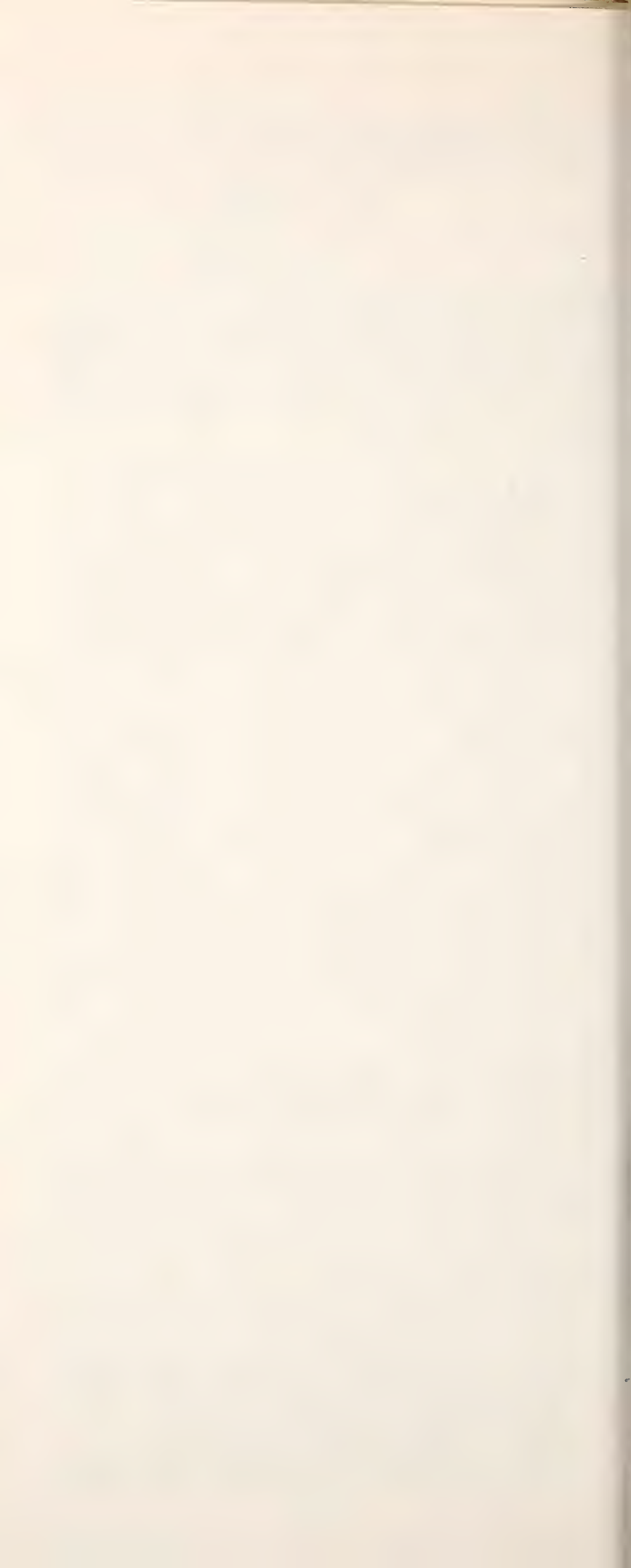
SL —Science Laboratory Building, Edwardsville

Wagner—Wagner Building, Edwardsville

UC —University Center, Edwardsville

CB —Communications Building, Edwardsville





Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw.	E. St. Louis	Time		

## MAN'S PHYSICAL ENVIRONMENT AND BIOLOGICAL INHERITANCE (GSA)

### 101a-5 Introduction to Physical Science

Student enrolls in lecture and one lab.

(Lab and Friday lecture meet every other week.)

Lect A	1:30-2:20	MTuWThF	SL 1105	Hakeem
Lab 001	10:30-12:20	Tu	SL 1217	staff
Lab 002	10:30-12:20	Th	SL 1217	staff
Lab 003	2:30-4:20	Th	SL 1217	staff
Lect B	8:30-9:20	MTuWThF	ESL 115	Boedeker
Lab 401	9:30-11:20	Tu	ESL 124	staff
Lab 402	9:30-11:20	Th	ESL 124	staff

### 101b-3 Introduction to Physical Science

Student enrolls in lecture and one lab.

(Lab and Friday lecture meet every other week.)

Lect	12:30-1:20	M W F	SL 1105	Shaw
Lab 001	9:30-11:20	W	SL 1218	Shaw
Lab 002	9:30-11:20	F	SL 1218	Shaw

### 101c-3 Introduction to Physical Science

Student enrolls in lecture and one lab.

Lect	11:30-12:20	Tu Th	PB 1402	Probst
Lab 001	12:30-2:20	Tu	SL 1209	Probst
Lab 002	12:30-2:20	Th	SL 1209	Probst
Lab 003	2:30-4:20	Tu	SL 1209	Probst
Lab 004	2:30-4:20	Th	SL 1209	staff
Lab 005	2:30-4:20	W	SL 1209	staff

### 110a-4 The Earth and Its Environment

Lect A	8:30-9:20	MTuW	SL 1215	Gore
Lab 001	7:30-9:20	F	SL 1215	Gore
Lect-Lab E002	6:30-8:20	Tu Th	SL 1215	Marlow
Lect B	12:30-1:20	M W F	SL 1215	Clements
Lab 003	12:30-2:20	Tu	SL 1215	Clements
Lect C	10:30-11:20	MTuW	ESL 112	Baker
Lab 401	10:30-12:20	Th	ESL 112	Baker

### 110b-4 The Earth and Its Environment

Lect A	11:20-12:20	MTuW	SL 1215	Gore
Lab 001	11:30-1:20	Th	SL 1215	Gore

### 200-3 Earth Science

001	10:30-11:20	MTuW F	SL 1215	Collier
002	9:30-10:20	MTuW F	SL 1215	Clements
401	9:30-10:20	MTuWTh	ESL 112	Baker

### 201a-4 Man's Biological Inheritance

Lect	11:30-12:20	M W F	SL 1105	Ratzlaff
Lab 001	7:30-9:20	M	SL 2211	N. Parker
Lab 002	9:30-11:20	M	SL 2211	N. Parker
Lab 003	7:30-9:20	W	SL 2211	N. Parker

### 201b-3 Man's Biological Inheritance

Lect	11:30-12:20	Tu Th	SL 1105	Thomerson
Lab 001	7:30-9:20	Tu	SL 2211	Thomerson
Lab 002	9:30-11:20	Tu	SL 2211	Thomerson
Lab 003	7:30-9:20	Th	SL 2211	Thomerson

### 201c-3 Man's Biological Inheritance

Lect	9:30-10:20	Tu Th	SL 2224	Kumler
Lab 001	9:30-11:20	W	SL 2211	Kumler
Lab 002	11:30-1:20	W	SL 2211	Kumler

### 312-3 Conservation of Natural Resources

001	8:30-9:20	M W F	PB 0306	Clements
002	10:30-11:20	M W F	PB 0306	Kazeck
003	12:30-1:20	M W F	PB 1412	Lossau
E004	6:30-7:45	M W	SL 1215	Collier

### 330-3 Weather

001	9:30-10:20	MTuWTh	PB 0306	Guffy
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### 331-3 Climate

001	12:30-1:20	MTuWTh	PB 0306	Guffy
E002	6:30-8:20	M W	PB 0306	Baker

### 356-3 Astronomy

001	8:30-9:45	Tu Th	SL 1105	Zurheide
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### 361-3 Physics of Music and Acoustics

001	2:30-3:20	M W F	SL 1225	Shaw
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### 363a-3 Philosophy of Science (Same as GSC 363a)

001	10:30-11:20	M W F	PB 0413	Barker
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### 363b-3 Philosophy of Science (Same as GSC 363b)

001	12:30-1:20	MTu Th	PB 0413	Livergood
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Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw.	E. St. Louis	Time		

### MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)

101b-4	Survey of Western Civilization				
001		8:30-9:20	TuWThF	PB 3305	Erickson
002		1:30-2:20	MTuWTh	PB 0306	Steckling
E003		6:30-8:20	Tu Th	PB 0306	Erickson
401		9:30-10:20	MTuWTh	ESL 105	Branz
101c-4	Survey of Western Civilization				
001		9:30-10:20	M WThF	PB 2412	Haas
002		10:30-11:20	TuWThF	PB 2412	Kimball
401		10:30-11:20	MTuWTh	ESL 105	Branz
103a-4	Sociology—Economics				
001		2:30-4:20	Tu Th	PB 1402	Remmling
E002		6:30-8:20	Tu Th	PB 1402	More
401		9:30-10:20	MTuWTh	ESL 103	staff
103b-4	Sociology—Economics				
001		11:30-12:20	MTuWTh	PB 0411	staff
E002		6:30-8:20	M W	PB 0411	staff
E401		6:30-8:20	Tu Th	ESL 115	staff
201a-4	The Individual and His Cultural Environment				
001		2:30-4:20	Tu Th	SL 1105	Hayes
002		8:30-10:20	M W	PB 1402	Clendenen
201c-3	The Individual and His Cultural Environment				
001		12:30-1:20	MTuW	PB 1402	Taliana
203a-4	American Politics in the World Environment				
001		9:30-10:20	MTuWTh	PB 1306	Stahnke
002		10:30-11:20	MTuWTh	PB 1306	Mace
003		11:30-12:20	MTuWTh	PB 1306	Maier
004		12:20-1:20	MTuWTh	PB 1306	Mace
005		1:30-2:20	MTuWTh	PB 1306	Stahnke
203b-4	American Politics in the World Environment				
001		9:30-10:20	MTuW F	PB 1412	Kazeck
002		11:30-12:20	MTuW F	PB 1412	Koepke
300a-3	History of the United States				
001		7:30-8:20	MTuW	PB 0306	McCurry
002		12:30-1:20	MTu Th	PB 2410	Millett
E003		6:30-7:45	Tu Th	PB 0304	Millett
300b-3	History of the United States				
001		10:30-11:20	MTuW	PB 2410	Weiss
300c-3	History of the United States				
001		11:30-12:20	MTuW	PB 2306	Weiss
311-3	Economic Development of the United States				
001		10:30-11:20	MTu Th	PB 2306	Glynn
331-3	The American Educational Systems				
001		8:30-9:20	MTuW	PB 2403	Darnell
002		12:30-1:20	MTuW	PB 1307	Brucker
003		9:30-10:20	MTuW	PB 2403	Swerdlin
004		*11:30-12:20	MTuWTh	PB 0312	Brown
341-3	Marriage				
001		10:30-11:20	MTuW	SL 1105	Taylor
385-3	Contemporary Political Isms				
E001		4:30-7:20	Tu	PB 1306	Maier

### MAN'S INSIGHTS AND APPRECIATIONS (GSC)

100-3	Music Understanding				
001		10:30-11:20	M W F	PB 1402	Pival
401		12:30-1:20	M W F	ESL 212	Fjerstad
101-3	Art Appreciation				
001		11:30-12:20	M W F	LB 0044	Huntley
002		1:30-2:20	M W F	LB 0044	Freund
401		12:30-1:20	M W F	ESL 130	Smith
151-3	Introduction to Poetry				
001		7:30-8:20	MTuW	PB 0413	Hollander
002		8:30-9:20	MTuW	PB 3404	Brannon
003		10:30-11:20	MTuW	PB 3404	Ragain
E004		8:30-10:20	M W	PB 3404	Bailey
401		8:30-9:20	MTuW	ESL 112	Knoll
203-3	Drama and Arts of the Theatre				
001		8:30-9:20	M W F	PB 2412	Kluth
252-4	Logic				
001		7:30-8:20	MTuWTh	PB 0307	Barker
002		9:30-10:20	MTuWTh	PB 0314	Corr

\* 8-weeks course



Course No.—Hours Edw. E. St. Louis	Descriptive Title Time	Days	Place	Instructor
003	11:30-12:20	MTuWTh	PB 0314	Rodier
004	1:30-2:20	MTuWTh	PB 0314	Goedecke
E005	6:30-8:20	M W	PB 0314	Linden
401	1:30-2:20	MTuWTh	ESL 112	Murdoch
E402	6:30-8:20	Tu Th	ESL 112	Morgan
<b>253-4 Literary Masterpieces of Antiquity</b>				
001	8:30-9:20	MTuWTh	PB 1307	J. Funkhouser
002	10:30-11:20	MTuWTh	PB 1307	Bailey
003	1:30-2:20	MTuWTh	PB 3404	Cain
E401	6:30-8:20	M W	ESL 112	Knoll
<b>254-4 Philosophical Masterpieces</b>				
001	9:30-10:20	MTuWTh	PB 3404	Murdock
002	11:30-12:20	MTuWTh	PB 3404	Goedecke
003	12:30-1:20	MTuWTh	PB 3404	Rodier
E004	6:30-8:20	M W	PB 1307	Glossop
<b>335-3 Studies in Short Fiction</b>				
001	* 7:30-8:20	MTuWTh	PB 3409	Murphy
002	* 1:30-2:20	MTuWTh	PB 2414	Duncan
<b>340-3 Modern Art A</b>				
001	12:30-1:20	M W F	LB 0044	Hilberry
<b>354a-3 History of the Theatre</b>				
001	8:30-9:20	M W F	PB 3415	Vilhauer
<b>360-3 Arts and Ideals in Famous Cities</b>				
001	* 12:30-1:20	MTuWTh	PB 0314	F. Marti
<b>363a-3 Philosophy of Science (Same as GSA 363a)</b>				
001	10:30-11:20	M W F	PB 0413	Barker
<b>363b-3 Philosophy of Science (Same as GSA 363b)</b>				
001	12:30-1:20	MTu Th	PB 0413	Livergood

### ORGANIZATION AND COMMUNICATION OF IDEAS (GSD)

<b>101a-3 English Composition</b>				
001	7:30-8:20	MTuWTh	PB 0309	Brannon
002	8:30-9:20	MTuWTh	PB 3315	Ragain
003	9:30-10:20	MTuWTh	PB 0413	Murphy
004	10:30-11:20	MTuWTh	PB 0314	Bell
005	11:30-12:20	MTuWTh	PB 0406	Kilby
006	12:30-1:20	MTuWTh	PB 1414	Van Syoc
E007	6:30-8:20	M W	PB 0309	Ragain
401	10:30-11:20	MTuWTh	ESL 221	Suess
E402	6:30-8:20	Tu Th	ESL 221	Suess
<b>101b-3 English Composition</b>				
001	7:30-8:20	MTuWTh	PB 3404	Violette
002	10:30-11:20	MTuWTh	PB 2403	Hollander
003	11:30-12:20	MTuWTh	PB 0413	Thompson
E004	6:30-8:20	Tu Th	PB 0309	Bell
401	11:30-12:20	MTuWTh	ESL 221	Murray
<b>103-3 Oral Communication of Ideas</b>				
001	7:30-8:20	M W F	CB 0186	Robinson
002	8:30-9:20	M W F	PB 2415	Robinson
003	8:30-9:20	M W F	PB 2413	Smith
004	9:30-10:20	M W F	PB 2413	Smith
005	9:30-10:20	M W F	PB 2409	Archer
006	10:30-11:20	M W F	PB 2409	Smith
007	10:30-11:20	M W F	PB 2413	Archer
008	11:30-12:20	M W F	PB 2413	Smith
009	11:30-12:20	M W F	PB 2409	Archer
010	12:30-1:20	M W F	PB 2409	Archer
011	1:30-2:20	M W F	CB 0186	Smith
401	9:30-10:20	M W F	ESL 222	Fix
402	10:30-11:20	M W F	ESL 222	Fix
403	11:30-12:20	M W F	ESL 222	Fix
<b>106-0 Intermediate Algebra</b>				
001	12:30-1:20	M WThF	SL 3225	Goering
002	1:30-2:20	M WThF	SL 3225	Goering
401	12:30-1:20	M WThF	ESL 103	Rutledge
<b>112b-5 Introduction to Mathematics</b>				
001	1:30-2:20	MTu ThF	SL 2224	Phillips
401	9:30-10:20	M WThF	ESL 104	Rutledge
<b>112c-4 Introduction to Mathematics</b>				
001	11:30-12:20	M W F	SL 0226	Holden
<b>114a-5 College Algebra and Trigonometry</b>				
001	8:30-9:20	MTuWThF	SL 1224	Poynor
002	1:30-2:20	MTuWThF	SL 1224	Holden
401	10:30-11:20	MTuWThF	ESL 103	Brown

\* 8-weeks course

## 16 GENERAL STUDIES AREA D (GSD)

Course No.—Hours		Descriptive Title	Time			Days	Place	Instructor
Edw.	E. St. Louis							
114b-3	College Algebra							
001		9:30-10:20	M	W	F	SL 1224		staff
401		11:30-12:20	M	W	F	ESL 103		Brown
114c-3	Trigonometry							
001		12:30-1:20	M	WThF		SL 0226		Hughs
114d-4	Statistics							
001		8:30-9:20	M	W	F	PB 2306		staff
E002		5:30-8:10		W		PB 2306		staff
123-9	Elementary French							
001		8:30-10:20	M	WThF		PB 1414		staff
		8:30-9:20		Tu		PB 1414		staff
123c-3	Elementary French							
001		11:30-12:20	MTuW			PB 1414		staff
126-9	Elementary German							
001		7:30-8:20	MTuWTh			PB 3302		staff
		10:30-11:20	MTuWThF			PB 3302		staff
140-9	Elementary Spanish							
001		9:30-11:20	MTu	ThF		PB 3313		staff
		9:30-10:20		W		PB 3313		staff

## HEALTH AND PHYSICAL DEVELOPMENT (GSE)

101d-1	Life Saving (Men)							
001		2:30-3:20	Tu	Th				Moehn
111d-1	Life Saving (Women)							
001		2:30-3:20	Tu	Th				Moehn
116a-1	Beginning Swimming							
001		1:30-2:20	M	W				Moehn
002		2:30-3:20	M	W				Moehn
116b-1	Intermediate Swimming							
001		1:30-2:20	Tu	Th				Moehn
117c-1	Social Dance							
001		*11:30-12:20	M	W	F	CB 0194		Bowman
002		*1:30-2:20	M	W	F	CB 0194		Bowman
118a-1	Archery							
001		*8:30-9:20	M	W	F			Bowman
002		*9:30-10:20	M	W	F			Bowman
118d-1	Bowling							
001		1:30-2:20	M	W		UC 0017		Showers
002		1:30-2:20	Tu	Th		UC 0017		Showers
003		2:30-3:20	M	W		UC 0017		Showers
004		2:30-3:20	Tu	Th		UC 0017		Showers
118e-1	Golf							
001		7:30-8:20	M	W				Luedke
002		8:30-9:20	M	W				Luedke
401		9:30-10:20	Tu	Th				Luedke
118h-1	Tennis							
001		10:30-11:20	M	W				Luedke
002		11:30-12:20	M	W				Luedke
401		10:30-11:20	Tu	Th				Luedke
118k-1	Horseback Riding							
001		*1:30-4:00	Tu					Bowman

## ACCOUNTING (ACCT)

251a-4	Elementary Accounting I							
001		10:30-11:20	MTuWTh			PB 3303		staff
E002		8:30-10:20	M	W		PB 3303		staff
251b-4	Elementary Accounting II							
001		9:30-10:20	MTuWTh			PB 3303		staff
E002		8:30-10:20	Tu	Th		PB 3303		staff
251c-4	Elementary Accounting III							
E001		6:30-8:20	M	W		PB 3303		staff
341-4	Cost Accounting							
E001		6:30-8:20	M	W		PB 2304		staff
351a-4	Intermediate Accounting I							
E001		8:30-10:20	M	W		PB 2304		staff
442-4	Advanced Cost Accounting							
E001		6:30-8:20	Tu	Th		PB 3303		staff

## ANTHROPOLOGY (ANTH)

305b-3	People and Cultures of the World I—Asia							
001		10:30-11:45	M	W		PB 3315		Hayes
405-4	Social Anthropology							
001		10:30-12:20	Tu	Th		PB 3315		Clendenen

\* 8-weeks course

Course No.—Hours Edw.	Descriptive Title E. St. Louis	Time	Days	Place	Instructor
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## A R T (ART)

100a-5	Basic Studio				
001		8:30-10:20	MTuWThF	SL 0225	Richardson
100b-5	Basic Studio				
001		8:30-10:20	MTuWThF	SL 0225	Richardson
100c-5	Basic Studio				
001		8:30-10:20	MTu ThF	SL 0225	Richardson
300a-4	Art Education				
001		10:30-12:20	MTuWTh	SL 0209	Buddemeyer
300b-4	Art Education				
001		8:30-10:20	MTuWTh	SL 0209	Buddemeyer
300c-4	Art Education				
001		8:30-10:20	MTuWTh	SL 0209	Buddemeyer
305a-4	Advanced Ceramics				
001		3:30-5:20	MTuW F	Wagner	Freund
310a-4	Painting				
001		8:30-10:20	MTuW F	SL 0218	Smith
310b-4	Painting				
001		8:30-10:20	MTuW F	SL 0218	Smith
310c-4	Painting				
001		8:30-10:20	MTuW F	SL 0218	Smith
325a-4	Studio				
001		Arranged			staff
325b-4	Studio				
001		Arranged			staff
325c-4	Studio				
001		Arranged			staff
358a-4	Prints				
001		10:30-12:20	MTuWTh	SL 0210	Richardson
358b-4	Prints				
001		10:30-12:20	MTuWTh	SL 0210	Richardson
358c-4	Prints				
001		10:30-12:20	MTuWTh	SL 0210	Richardson
393a-4	Sculpture				
001		1:30-3:20	MTuW F	Wagner	Huntley
393b-4	Sculpture				
001		1:30-3:20	MTuW F	Wagner	Huntley
393c-4	Sculpture				
001		1:30-3:20	MTuW F	Wagner	Huntley
405-2 to 12	Studio in Sculpture				
001		1:30-3:20	MTuW F	Wagner	Smith
406-2 to 12	Studio in Painting				
001		8:30-10:20	MTuW F	SL 0218	Smith
416-2 to 12	Studio in Prints				
001		10:30-12:20	MTuWTh	SL 0210	Richardson
426-2 to 12	Studio in Pottery				
001		3:30-5:20	MTuW F	Wagner	Freund
501-4	Seminar in Painting				
001		8:30-10:20	MTuW F	SL 0218	Smith
502-4	Seminar in Sculpture				
001		1:30-3:20	MTuW F	Wagner	Huntley
511-4	Seminar in Prints				
001		10:30-12:20	MTuWTh	SL 0210	Richardson
520-4	Seminar in Pottery				
001		3:30-5:20	MTuW F	Wagner	Freund
571-2 to 5	Readings in Art History				
001		12:30-1:20	M W F	LB 0044	Hilberry

## B O T A N Y (BOT)

202-5	General Botany				
Lect		8:30-10:20	M	SL 3218	Kumler
		8:30-9:20	W		
Lab 001		7:30-9:20	Tu Th	SL 3210	Kumler

## B U S I N E S S A D M I N I S T R A T I O N (BA)

502-4	Business and Society				
E001		6:30-8:20	M W	PB 1306	staff

## B U S I N E S S E D U C A T I O N (BSED)

415-6	Supervised Business Experience and Related Study				
001		9:00-12:00	MTuWThF	PB 0408	McElroy
		June 19-23 & July 31-Aug. 4			



## 18 BUSINESS EDUCATION (BS ED)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. E. St. Louis	Time			
500-2 to 5	Readings in Business Education			
001	Arranged			staff
501-2 to 5	Individual Research in Business Education			
001	Arranged			staff
502-4	Research in Business Education			
001	10:30-11:20	MTuWThF	PB 0409	Brady
503-4	Tests and Measurements in Business Education			
001	9:30-10:20	MTuWThF	PB 0409	Maedke
505-4	Workshop in Business Education			
001	11:30-12:20	MTuWThF	PB 0409	Palmer
506-4	Principles and Problems in Business Education			
001	8:30-9:20	MTuWThF	PB 0409	Houser
599-2 to 9	Thesis			
001	Arranged			staff

## CHEMISTRY (CHEM)

111a-5	Chemical Principles and Inorganic Chemistry			
Lect	10:30-11:20	M WTh	SL 2224	Jason
Lab 001	11:30-12:20	Tu	SL 2224	Jason
	11:30-2:20	Th	SL 2215	
Lab 002	11:30-12:20	Th	SL 0226	staff
	11:30-2:20	Tu	SL 2215	
111c-5	Chemical Principles and Inorganic Chemistry			
Lect E	5:30-6:45	M W	ESL 105	Stallard
Lab E401	6:55-9:40	M W	ESL 123	Stallard
Lab E402	6:55-9:40	Tu Th	ESL 123	staff
235-5	General Quantitative Analysis			
Lect E	5:30-6:45	Tu Th	SL 2224	Bain
Lab E001	6:55-9:40	Tu Th	SL 2216	Bain
240-4	Organic Chemistry			
Lect	8:30-9:20	MTu Th	ESL 104	Probst
Lab 401	9:30-12:20	M	ESL 123	Probst
Lab 402	9:30-12:20	W	ESL 123	staff
444-3	Organic Reactions			
E001	5:30-6:45	M W	SL 3225	Jason
460-5	Theoretical Chemistry			
Lect	9:30-10:20	MTuWTh	SL 1105	Rands
Lab 001	10:30-1:20	M	SL 2215	Rands
Lab 002	10:30-1:20	W	SL 2215	Rands

## ECONOMICS (ECON)

210-5	Principles of Economics			
001	9:30-10:20	MTuWThF	PB 2306	staff
E002	5:30-8:10	Tu Th	PB 2306	Schwier
E401	5:30-8:10	Tu Th	ESL 103	staff
310-4	Labor Problems			
E001	6:30-8:20	M W	PB 0312	C. Drake
315-4	Money and Banking I			
E001	8:30-10:20	Tu Th	PB 0312	Livingston

## EDUCATION ADMINISTRATION (ED AD)

355-4	Philosophy of Education (Same as PHIL 355)			
001	*9:30-10:20	MTuWThF	PB 3409	Hoffman
002	*1:30-2:20	MTuWThF	PB 3409	Curry
003	*11:30-12:20	MTuWThF	PB 0304	Corr
420-4	Legal Basis of American Education			
001	*1:30-2:20	MTuWThF	PB 0307	Smith, Harry
431-4	History of Education In The United States			
001	*2:30-3:20	MTuWThF	PB 0307	Smith, Harry
434-4	Administrators Workshop			
001	8:30-4:00	MTuWThF	PB 0312	Andree
	Aug. 21-Sept. 2			
456-4	School Supervision			
001	*9:30-10:20	MTuWThF	PB 0312	Palmer
490-4	International Field Study in Comparative Education			
001	School Supervision Seminar (Europe)			Boss
	July 19-August 9			
002	Southern Europe Seminar			Wantling
	June 7-June 28			
003	Eastern Europe Seminar			Southwood
	July 12-August 2			
004	Instructional Materials Seminar (Europe)			Mitchell
	August 3-August 24			

\* 8-weeks course

Course No.—Hours Edw. E. St. Louis	Descriptive Title Time	Days	Place	Instructor
005	Latin American Seminar June 12–July 2			Villemain
500-4	Research Methods			
001	*12:30–1:20	MTuWThF	PB 3409	Jordan
002	*10:30–11:20	MTuWThF	PB 3409	Smyers
003	*1:30–2:20	MTuWThF	PB 2415	Madson
004	*9:30–10:20	MTuWThF	PB 2415	Jordan
524-4	School Administration			
001	*9:30–10:20	MTuWThF	PB 0406	Ackerlund
525-4	Personnel Administration			
001	*11:30–12:20	MTuWThF	PB 0306	Ackerlund
533-4	School Buildings			
001	*8:30–9:20	MTuWThF	PB 0312	Andree
534a-4	School Finance			
001	*8:30–9:20	MTuWThF	PB 0406	Wilkins
554-4	Contrasting Philosophies of Education			
	(See page 9)			
001	*10:30–1:00	M W	PB 0412	Villemain
560-4	Curriculum			
	(See page 9)			
001	*10:30–11:20	MTuWThF	PB 0312	Smith, Herb
002	*8:00–10:15	M W	PB 0412	Smith, Herb

## EDUCATION ELEMENTARY (ED EL)

314-4	Elementary School Methods			
001	8:30–9:20	MTuWTh	PB 0307	Palmer
002	11:30–12:20	MTuWTh	PB 0309	Steinbrook
337-4	Reading in the Elementary School			
001	8:30–9:20	MTuWTh	PB 0309	Steinbrook
002	12:30–1:20	MTuWTh	PB 0309	Steinbrook
413-4	Children's Literature			
001	*8:30–9:20	MTuWThF	PB 0413	Carpenter
415-4	Improvement of Instruction in Arithmetic in the Elementary School			
001	*7:30–8:20	MTuWThF	PB 0312	Swerdlin
442-4	Science for the Elementary Teacher			
001	*1:30–2:20	MTuWThF	PB 0413	Bliss
505-4	Improvement of Reading Instruction (Same as ED S 505)			
001	*9:30–10:20	MTuWThF	PB 0411	Richardson
507-2 to 4	Readings in Reading (Same as ED S 507)			
001	Arranged			Bear
515-4	Special Problems in the Teaching of Arithmetic in the Elementary School			
001	*12:30–1:20	MTuWThF	PB 0312	Swerdlin
518-4	Supervision of Student Teachers (Same as ED S 518)			
001	*1:30–2:20	MTu Th	PB 0304	Wehling
521a-4	Diagnosis and Correction of Reading Disabilities (Same as ED S 521a)			
001	*9:30–10:20	MTuWThF	PB 0304	Bear
521b-4	Diagnosis and Correction of Reading Disabilities (Same as ED S 521b)			
001	*10:30–11:20	MTuWThF	PB 0304	Bear
541-4	Curriculum Problems in Elementary School Science			
001	*2:30–3:20	MTuWThF	PB 0312	Bliss
542-4	Language Arts in the Elementary School			
001	*8:30–9:20	MTuWThF	PB 1306	Jordan
543-4	Teaching the Social Studies in the Elementary School			
001	*1:30–2:20	MTuWThF	PB 0312	Carpenter
561-4	The Elementary School Curriculum			
001	*11:30–12:20	MTuWThF	PB 0304	Comer

## EDUCATION SPECIAL (SPE)

410b-4	Problems and Characteristics of the Mentally Retarded Child			
001	*12:30–1:20	MTuWThF	PB 3417	Shepherd
413b-4	Directed Observation of the Educable Mentally Handicapped			
001	Arranged			Shepherd
414-4	The Exceptional Child			
001	*10:30–11:20	MTuWThF	PB 3305	Bommarito
420b-4	Methods and Materials in the Education of the Educable Mentally Handicapped			
001	*8:30–9:20	MTuWThF	ESL 221	Tucker
428-4	Speech Correction for the Classroom Teacher (Same as SP C 428)			
001	*9:30–10:20	MTuWThF	CB 0186	H. White
002	*10:30–11:20	MTuWThF	CB 0186	H. White

\* 8-weeks course

## 20 EDUCATION SPECIAL (SP E)

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw.	E. St. Louis				

577-4 to 12	Practicum in Special Education				
001	* Arranged—Consent of Instructor				Tucker

## EDUCATION SECONDARY (EDS)

315-4	High School Methods				
001	1:30-2:20	MTuWTh	PB 0309	Smith, Herb	
002	9:30-10:20	MTuWTh	PB 0309	Smyers, M.	
407-4	The Junior High School				
001	8:30-9:20	MTuWThF	PB 0314	Hileman	
440-4	Teaching Reading in High School				
001	10:30-11:20	MTuWThF	PB 0309	Richardson	
488-4	Teaching the Social Studies in the Secondary Schools				
001	10:30-11:20	MTuWThF	PB 0406	Wilkins	
505-4	Improvement of Reading Instruction (Same as ED EL 505)				
001	* 9:30-10:20	MTuWThF	PB 0411	Richardson	
507-2 to 4	Readings in Reading (Same as ED EL 507)				
001	* Arranged				Bear
508-4	Seminar: Trends in Selected Areas in Secondary Schools				
001	12:30-1:20	MTuWThF	PB 0406	Andree	
518-4	Supervision of Student Teachers (Same as ED EL 518)				
001	* 1:30-2:20	MTu Th	PB 0304	Wehling	
521a-4	Diagnosis and Correction of Reading Disabilities (Same as ED EL 521a)				
001	* 9:30-10:20	MTuWThF	PB 0304	Bear	
521b-4	Diagnosis and Correction of Reading Disabilities (Same as ED EL 521b)				
001	10:30-11:20	MTuWThF	PB 0304	Bear	
562-4	The High School Curriculum				
001	1:30-2:20	MTuWThF	PB 0406	Smyers	
564-4	High School Principalship				
001	10:30-11:20	MTuWThF	PB 0406	Madson	
591-4	Workshop in Current Problems in Secondary Education				
001	8:30-4:00	MTuWThF	PB 3316	Boss	
	August 14—August 25				

## ENGLISH (ENG)

302a-4	Survey of English Literature to 1550				
001	9:30-10:20	MTuWTh	PB 3315	Violette	
302b-4	Survey of English Literature 1550-1750				
E001	6:30-8:20	M W	PB 0413	Taylor	
302c-4	Survey of English Literature after 1750				
001	12:30-1:20	MTuWTh	PB 2403	Duncan	
309a-4	Survey of American Literature to 1865				
001	8:30-9:20	MTuWTh	PB 3313	Bailey	
309b-4	Survey of American Literature after 1865				
E001	6:30-8:20	Tu Th	PB 0413	Kilby	
365-4	Shakespeare				
001	* 10:30-11:20	MTuWThF	PB 3316	Murphy	
390-3	Advanced Composition				
001	* 1:30-2:20	MTuWTh	PB 1307	Havens	
391-3	Usage in Spoken and Written English				
001	* 8:30-9:20	MTuWTh	PB 3316	Bell	
002	* 11:30-12:20	MTuWTh	PB 2403	J. Funkhouser	
400-4	Introduction to English Linguistics				
001	* 9:30-10:20	MTuWThF	PB 1304	Van Syoc	
412b-4	English Non-Dramatic Literature: 17th Century				
001	* 8:30-9:20	MTuWThF	PB 3409	Cain	
421d-4	Modern British Poetry				
001	* 10:30-11:20	MTuWThF	PB 2414	Thompson	
473-4	Milton				
001	* 11:30-12:20	MTuWThF	PB 3409	Ades	
504-4	Advanced English Syntax				
001	* 8:30-9:20	MTuWThF	PB 1304	Van Syoc	
531-4	Studies in American Colonial Period				
001	* 10:30-11:20	MTuWThF	PB 1304	Havens	
555-4	Studies in the Victorian Novel				
001	* 11:30-12:20	MTuWThF	PB 1304	Duncan	
560-4	Studies in Renaissance Drama				
001	* 1:30-2:20	MTuWThF	PB 1304	Taylor	

## FOREIGN LANGUAGES (FL)

486-8	Methods and Materials for Teaching Foreign Languages				
001	* 8:30-10:20	MTuWThF	PB 2414	Pellegrino	
	* 8-weeks course				



Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. E. St. Louis	Time			

**French (Fr)**

123-3	French Conversation			
001	9:30-11:20	Tu	PB 1414	staff
	10:30-11:20	Th	PB 1414	
123c-1	French Conversation			
001	11:30-12:20	Th	PB 1414	staff

**German (Ger)**

126-3	German Conversation			
001	7:30-8:30	F	PB 3302	staff
	8:30-9:20	W F	PB 3302	

**Spanish (Span)**

140-3	Spanish Conversation			
001	10:30-12:20	W	PB 3313	staff
	11:30-12:20	M	PB 3313	

**G E O G R A P H Y (GEOG)**

463a-4	Mediterranean Lands and Southwestern Asia			
001	8:30-9:20	MTuWTh	PB 1412	Guffy
467a-4	Advanced Regional Geography: Latin America			
001	10:30-11:20	MTuW F	PB 1412	Lossau
470e-4 to 8	Urban Planning: Planning and Public Administration Internship			
001	Arranged			Lossau
490b-1	Tutorial in Geography			
E001	6:30-8:20	Th	SL 1216	Guffy
515-6	Field Course			
E001	6:30-8:20	Tu Th	PB 1412	Koepke
	4 Sat. meetings in field			
530-2 to 4	Independent Studies in Geography			
001	Arranged		SL 1216	Lossau
599-8	Thesis			
001	Arranged			Kazeck

**G O V E R N M E N T (GOVT)**

340-3	The Legislative Process			
001	9:30-10:20	M WTh	PB 0307	Goodman
361-3	Problems in Public Administration and Policy Formulation			
001	10:30-11:20	M WTh	PB 0307	staff
371-4	Problems of American Foreign Policy			
001	12:30-1:20	MTuWTh	PB 0307	Maier
453b-4	The Government and Politics of the Soviet Union			
001	11:30-12:20	MTuWTh	PB 0307	Stahnke
487b-3	American Political Ideas			
E001	4:30-7:20	M	PB 0307	Mace
517-3	Seminar in Problems in Political Theory			
	Arranged			Elsworth

**G U I D A N C E (GUID)**

305-4	Educational Psychology			
	(enrollment only by permission Education Division adviser)			
001	*1:30-2:20	MTuWThF	PB 3316	Engbretson
E002	6:30-8:20	Tu Th	PB 3316	Bommarito
420-4	Educational Statistics			
001	*9:30-10:20	MTuWThF	PB 3316	Brinkman
422-4	Educational Measurements I			
001	*8:30-9:20	MTuWThF	PB 3417	McCall
501-2 to 8	Special Research Problems			
001	Arranged—Consent of Chairman			staff
511-4	Educational Implications of Learning Theories			
001	*12:30-1:20	MTuWThF	PB 2304	staff
522-4	Educational Measurements II			
001	*10:30-11:20	MTuWThF	PB 3417	Daugherty
526-4	Techniques in Individual Guidance (Elementary)			
001	*9:30-10:20	MTuWThF	PB 2304	Rochester
537-4	Counseling Theory and Practice I			
001	*8:30-9:20	MTuWThF	SL 2212	McBride
E002	5:30-8:20	W	SL 2212	Pancrazio
538-4	Counseling Theory and Practice II			
001	*12:30-1:20	MTuWThF	PB 3422	Soper

\* 8-weeks course

## 22 GUIDANCE (GUID)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. E. St. Louis	Time			
541-4	Occupational Information and Guidance			
001	*1:30-2:20	MTuWThF	PB 2304	staff
542-4	Basic Principles of Guidance			
001	*10:30-11:20	MTuWThF	PB 3415	Pancrazio
E002	5:30-8:20	Tu	PB 2304	Davis
543-4	Guidance Through Groups			
001	*9:30-10:20	MTuWThF	PB 3422	staff
545b-4	Seminar in Guidance: Learning and Communication			
E001	5:30-8:20	W	PB 3409	Engbretson
545j-4	Seminar in Guidance: Organization and Administration			
001	*12:30-1:20	MTuWThF	PB 3415	Davis
562b-4	Adolescent Development in Education			
001	*1:30-2:20	MTuWThF	PB 3417	Troyer

## HEALTH EDUCATION (HED)

415s-3	Workshop in Driver Education and Traffic Safety			
001	Afternoons Aug. 14-19		PB 0411	Klein
470-3	Sex Education in the Elementary School			
001	Afternoons July 10-20		PB 0411	Klein
480s-4	Workshop in Safety Education			
001	Mornings Aug. 14-19		PB 0412	Klein

## HISTORY (HIST)

332b-4	Medieval History			
001	12:30-1:20	MTuWTh	PB 0411	Steckling
372b-4	History of Russia			
001	11:30-12:20	TuWThF	PB 3417	Kimball
415a-4	Early Modern Europe			
001	*9:30-10:20	MTuWThF	PB 3417	Erickson
417d-4	Advanced English History			
001	10:30-11:20	M W F	PB 1414	Haas
	10:30-11:20	Th	PB 1412	
425-4	American Colonial History			
E001	6:30-8:20	M W	PB 0406	McCurry
474-3	United States-Mexican Relations			
001	8:30-9:20	MTu Th	PB 3302	Millett
500-4	History Seminar			
001	*1:30-3:20	M W	PB 2413	Weiss

## INSTRUCTIONAL MATERIALS (IM)

417-4	Audio-Visual Methods in Education			
001	*8:30-9:20	MTuWThF	LB 0042	Gilligan
002	*9:30-10:20	MTuWThF	LB 0042	Gilligan
003	*10:30-11:20	MTuWTh	LB 0042	Madson
004	*11:30-12:20	MTuWTh	LB 0042	Gilligan
445-4	Preparation of Teacher-Made Audio-Visual Materials			
001	*12:30-2:45	M W	LB 0042	Madson
002	*12:30-2:45	Tu Th	LB 0042	Madson

## MANAGEMENT (MGT)

170-4	Introduction to Business			
001	8:30-9:20	MTuWTh	PB 0411	staff
002	10:30-11:20	MTuWTh	PB 0411	staff
E003	8:30-10:20	M W	PB 0312	staff
E401	8:30-10:20	Tu Th	ESL 103	staff
320-4	Corporation Finance			
001	11:30-12:20	MTuWTh	PB 2412	Meador
E401	6:30-8:20	Tu Th	ESL 104	Kori
340-4	Business Organization and Management			
E401	8:30-10:20	Tu Th	ESL 104	staff
371-4	Business Law I			
E001	6:30-8:20	M W	PB 0304	staff
372-4	Business Law II			
E001	8:30-10:20	M W	PB 0304	staff
421-4	Management of Business Finance			
E001	8:30-10:20	Tu Th	PB 0304	staff
451-4	Methods of Quantitative Analysis			
E001	8:30-10:20	M W	PB 0306	staff

## MARKETING (MKTG)

230-5	Principles of Marketing			
001	7:30-8:20	MTuWThF	PB 2410	Bosse

\* 8-weeks course

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw.	E. St. Louis	Time		
338-4	Consumer Behavior			
E001	6:30-8:20	M W	PB 1412	Eckles
438-4	Sales Management			
001	9:30-10:20	MTuWTh	PB 2410	Gwin
444-4	Marketing Management			
001	8:30-9:20	MTuWTh	PB 2410	Vincent
490-4	Marketing Research and Analysis			
E001	8:30-10:20	M W	PB 0307	DeBord

## M A T H E M A T I C S (MATH)

150a-4	Elementary Calculus and Analytic Geometry			
001	12:30-1:20	M WThF	SL 1225	Holden
150b-4	Elementary Calculus and Analytic Geometry			
001	9:30-10:20	M WThF	SL 0226	Hattermer
225-4	Programming for Digital Computers			
001	11:30-12:20	M WThF	CB 0186	Goering
252a-4	Calculus and Analytical Geometry			
001	10:30-11:20	MTu ThF	SL 1224	Hughs
252b-4	Calculus and Analytical Geometry			
E001	6:30-8:20	M W	SL 1224	Hughs
310-4	The Teaching of Elementary Mathematics			
001	*10:30-11:20	MTuWThF	SL 0226	Gwillim
400-3	History of Mathematics			
001	*8:30-9:20	M WThF	SL 0226	Hattermer
413-4	Solid Analytic Geometry			
001	*11:30-12:20	MTuWThF	SL 1224	Hattermer
425-3	Theory of Numbers			
001	*9:30-10:20	M WThF	SL 3225	Poynor
433-3	Theory of Point Sets			
001	*11:30-12:20	M WThF	SL 2224	Poynor
446-4	The Structure of Elementary School Mathematics			
001	*12:30-1:20	MTuWThF	SL 1224	Gwillim

## N S F S U M M E R I N S T I T U T E

(June 19-Aug. 11)

440-4	Modern Algebra for Teachers			
001	1:30-2:20	MTuWThF	SL 1210	Lindstrum
442-4	Survey of Geometry			
001	11:00-11:50	MTuWThF	SL 1225	Lindstrum
447-4	Structure of Secondary School Mathematics			
001	10:00-10:50	MTuWThF	SL 1225	Sturley
002	1:30-2:20	MTuWThF	SL 1225	Sturley
550e-2	Seminar in Mathematics Education			
001	8:30-9:20	M Th	SL 1225	Pendergrass
002	8:30-9:20	Tu F	SL 1225	Pendergrass

## M U S I C (MUS)

002b-1	University Chorus					
001	11:30-12:20	M	W	F	CB 0158	VanCamp
010c-1	Class Applied Music: Brass					
001	9:30-10:20	M	WTh		CB 1029	Fjerstad
010e-1	Class Applied Music: Piano					
001	7:30-8:20	M	W	F	PB 3406	Henderson
105c-4	Theory of Music					
001	8:30-9:20	MTuWTh			CB 0186	staff
140a thru t-2 or 4	Private Applied Music					
001						
a.	Violin	h.	Bassoon		o.	Tuba
b.	Viola	i.	Saxophone		p.	Baritone
c.	Cello	j.	Percussion		q.	Voice
d.	String Bass	k.	Piano		r.	Organ
e.	Flute	l.	French Horn		s.	Harpsichord
f.	Oboe	m.	Trumpet		t.	Harp
g.	Clarinet	n.	Trombone			
240a thru t-2 or 4	Private Applied Music (See Mus 140)					
340a thru t-2 or 4	Private Applied Music (See Mus 140)					
355a-1	Chamber Music Ensembles: Brass					
001	10:30-11:20	Tu	Th		CB 1029	Fjerstad
440a thru t-2 or 4	Private Applied Music (See Mus 140)—(For senior and graduate students only)					
* 8-weeks course						
453-4 to 6	Workshop in Common Learnings in Music					
(June 19-July 13)						
001	9:30-11:20	MTuWTh			PB 1410	staff
	12:30-3:20	MTuWTh			PB 1410	staff



## 24 MUSIC (MUS)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. E. St. Louis	Time			
482-2 to 6	Readings in Music History and Literature			
001	* Arranged			staff
483-2 to 6	Readings in Music Education			
001	* Arranged			staff
501-3	Introduction to Graduate Study in Music			
001	*8:30-9:20	MTuWTh	CB 0194	Blakely
502a-3	History and Analysis of Musical Style			
001	*10:30-11:20	MTuWTh	CB 0194	Kresteff
540a thru t-2 or 4	Private Applied Music (See Mus 140)			
556-3	Advanced Conducting (Choral Emphasis)			
001	*3:30-5:15	M W	CB 0158	VanCamp
560-3	Seminar in Music Education			
001	*9:30-10:20	MTuWTh	PB 3406	Tulloss
566-1	Instrumental Ensemble (by audition)			
001	*10:30-11:20	Tu Th	CB 1029	Fjerstad
567-1	Vocal Ensemble			
001	*11:30-12:20	M W F	CB 0158	VanCamp
599-6	Thesis			
001	Arranged			Blakely

## NURSING (NURS)

363c-8	Medical-Surgical Nursing			
	(To be taken concurrently with 382-6)			
	Lect 401	8:30-10:50	M F	Hospital
	Lab 401	(1st half of quarter)		
		7:00-11:50		
		12:30-3:30	TuWTh	Hospital
382-6	Development of Leadership in Nursing			
	(To be taken concurrently with 363c-8)			
	Lect 401	11:00-12:20	M F	Hospital
	Lab 401	(2nd half of quarter)		
		7:00-11:50		
		12:30-3:30	TuWTh	Hospital

## PHILOSOPHY (PHIL)

200-4	Types of Philosophy: An Introduction			
001	10:30-11:20	MTuWTh	PB 2415	Livergood
355-4	Philosophy of Education (Same as ED AD 355)			
001	*9:30-10:20	MTuWThF	PB 3409	Hoffman
002	*1:30-2:20	MTuWThF	PB 3409	Curry
003	*11:30-12:20	MTuWThF	PB 0304	Corr
302-4	World Religions			
001	*2:30-3:20	MTuWThF	PB 3409	Linden

## PHYSICAL EDUCATION (PE)

350-4	Methods and Materials for Teaching Physical Education Activities in the Elementary School			
001	11:30-12:20	MTuWThF	PB 2410	Moehn
002	Afternoons July 17-Aug. 4		PB 2306	Moehn
365-2	Organization and Administration of Community Recreation			
001	All Day Aug. 14-19		PB 0312	Herrold
501-4	Curriculum in Physical Education			
001	9:30-10:20	MTuWThF	PB 3415	Klein
503-4	Seminar in Physical Education			
001	1:30-2:20	MTuWThF	PB 3422	Herrold
504-4	Problems in Physical Education			
001	8:30-9:20	MTuWThF	PB 3422	Showers
509-4	Supervision of Health and Physical Education			
001	10:30-11:20	MTuWThF	PB 3422	Showers
525-1 to 4	Readings in Physical Education			
001	Arranged			Herrold

## PHYSICS (PHYS)

211b-5	University Physics			
Lect	10:30-11:20	M W F	SL 3225	Zurheide
	11:30-12:20	W F	SL 3225	staff
Lab 001	8:30-10:20	M	SL 1217	staff
* 8-weeks course				
300-5	University Physics IV			
Lect E	7:30-8:20	M W F	SL 1125	Sanders
	8:30-10:20	W	SL 1125	Sanders
Lab E001	8:30-10:20	M	SL 0212	staff
309-4	Electric Circuits			
E001	6:30-9:20	Tu Th	SL 1225	Sanders

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw.	E. St. Louis	Time		

596-1 to 9 Research in Physics (Thesis) .....  
 Arranged

### PHYSIOLOGY (PHSL)

433-4 Comparative Physiology .....  
 Lect 8:30-9:20 Tu Th SL 3225 Ratzlaff  
 11:30-12:20 Th SL 3225 Ratzlaff  
 Lab 001 11:30-2:20 Tu SL 3218 Ratzlaff

### PSYCHOLOGY (PSYC)

211a-4 Principles and Methods of Psychology .....  
 001 1:30-2:20 MTuWThF PB 0412 McLaughlin  
 301-4 Child Psychology .....  
 001 10:30-11:20 MTuWTh PB 2304 Troyer  
 303-4 Adolescent Psychology .....  
 001 \*11:30-12:20 MTuWThF PB 3303 Kuenzli  
 307-4 Social Psychology .....  
 001 \*9:30-10:20 MTuWThF PB 3302 Taliana  
 311-4 Experimental Psychology: Learning .....  
 001 \*12:30-1:20 MTuWThF PB 3302 Ferguson  
 320-4 Industrial Psychology .....  
 001 \*8:30-9:20 MTuWThF PB 3303 Daugherty  
 406-4 Learning Process .....  
 001 8:30-9:20 MTuWTh PB 2409 McLaughlin  
 431-4 Psychopathology .....  
 001 \*11:30-12:20 MTuWThF PB 2304 staff  
 432-4 Mental Hygiene .....  
 001 \*8:30-9:20 MTuWThF PB 2304 Davis  
 E401 \*6:30-8:20 Tu Th ESL 105 Kuenzli  
 440-4 Theories of Personality .....  
 001 \*1:30-2:20 MTuWThF PB 3415 staff  
 465-4 Group Dynamics and Individual Behavior .....  
 001 \*11:30-12:20 MTuWThF PB 3316 Taliana  
 490-1 to 8 Independent Projects .....  
 001 Arranged—Consent of Chairman  
 541a-4 Psychodiagnostics I .....  
 001 1:30-2:20 MTuWThF PB 2409 Rochester

### SOCIOLOGY (SOC)

301-4 Principles of Sociology .....  
 401 8:30-9:20 MTuWTh ESL 103 staff  
 302-4 Contemporary Social Problems .....  
 E401 6:30-8:20 M W ESL 104 staff  
 340-4 The Family .....  
 001 12:30-1:20 MTuWTh PB 0304 Taylor  
 374-4 Sociology of Education .....  
 E001 4:30-5:20 MTuWTh PB 0304 More  
 375-4 Social Work as a Social Institution .....  
 001 11:30-12:20 MTuWTh PB 1307 Irvine  
 383-4 Introduction to Interviewing .....  
 001 3:30-4:20 MTuWTh PB 0304 Irvine  
 484-4 Survey Course in Marriage Counseling (Workshop) .....  
 E001 6:30-10:10 MTuWTh PB 1410 Taylor  
 June 19-July 6

### SPEECH CORRECTION (SPC)

406-4 Techniques and Interpretation of Hearing Tests .....  
 001 \*12:30-1:20 MTuWThF CB 0186 staff  
 428-4 Speech Correction for the Classroom Teacher (Same as SP E  
 428) .....  
 001 \*9:30-10:20 MTuWThF CB 0186 H. White  
 002 \*10:30-11:20 MTuWThF CB 0186 H. White

### THEATRE (THEA)

410-3 Children's Theatre .....  
 001 12:30-2:20 Tu Th CB 2015 Archer  
 \* 8-weeks course

### ZOOLOGY (ZOOL)

102-5 General Invertebrate Zoology .....  
 Lect 8:30-9:20 M W F SL 3225 Thomerson  
 Lab 001 10:30-12:20 M W SL 3210 Thomerson

## Quarter:

Year.

Year\_\_\_\_\_

Name \_\_\_\_\_

( <i>Last</i> )	( <i>First</i> )	( <i>Middle</i> )	( <i>Record Number</i> )
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(Record Number)

Address \_\_\_\_\_  
                     \_\_\_\_\_  
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(Number and Street)	(City and State)	(Phone Number)
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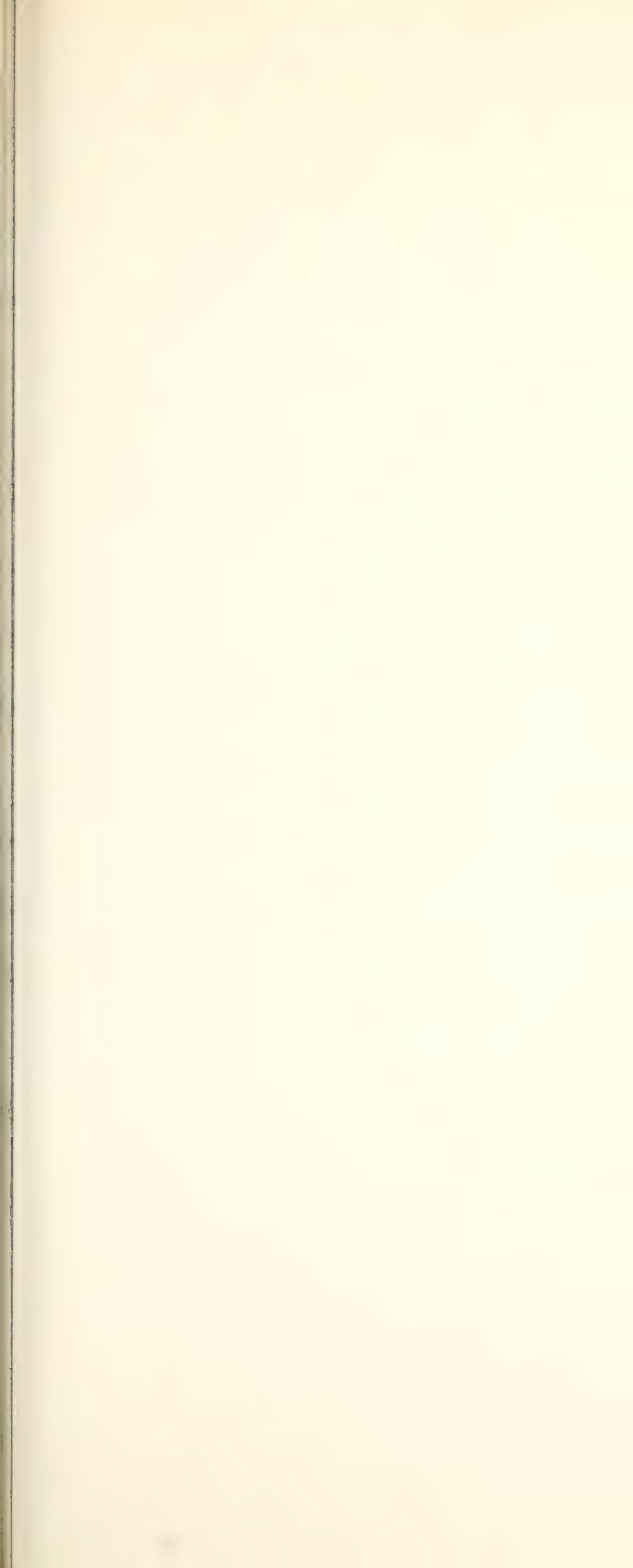
(Phone Number)

Concentration	Secondary Concentration
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Class \_\_\_\_\_ Day ( ) Evening ( ) Number of hours student works \_\_\_\_\_

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Edwardsville, Illinois 62025  
Return Requested

Carbondale, Illinois

*Graduate School  
Catalog*

1967-1969

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# Southern Illinois University Bulletin



## OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

### TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

### TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

### TO FORWARD IDEAS AND IDEALS

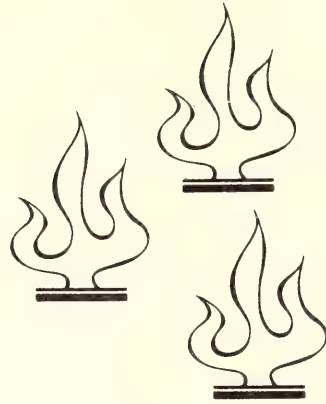
*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

### TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*

*Graduate School  
Catalog*

*1967-1969*



# **Southern Illinois University Bulletin**

*SOUTHERN ILLINOIS UNIVERSITY BULLETIN*

VOLUME 9 NUMBER 5

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## *This Issue . . . . .*

of the *Southern Illinois University Bulletin* covers in detail questions concerning the Graduate School and applies to both the Carbondale Campus and the Edwardsville Campus. It supersedes Volume 7, Number 5.

THE FOLLOWING issues of the *Southern Illinois University Bulletin* may be obtained free from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

Schedule of Classes. Please specify *quarter* (fall, winter, spring, or summer) and *campus* (Carbondale or Edwardsville).

Graduate School Catalog.

Division of Technical and Adult Education.

Financial Assistance.

University Extension Services.

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Copies will be furnished free to educational institutions upon request and to new students upon matriculation. The catalog may be purchased at the University Bookstore for \$1; mail orders should be sent to Central Publications and must include remittance payable to Southern Illinois University.

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Contents



University Calendar ..... v

Board of Trustees; Officers of Administration ..... vi

THE GRADUATE SCHOOL ..... 1

    The Role of the Graduate School ..... 1

    The University Libraries ..... 1

    Research ..... 3

    Data Processing and Computing ..... 3

    Fellowships and Assistantships ..... 4

    Housing ..... 5

        University Housing ..... 5

    Admission to the Graduate School ..... 5

        Admission to Graduate Study for the Master's Degrees ..... 7

        Admission to Advanced Graduate Study ..... 7

        Admission of International Students ..... 8

    Advisement ..... 9

        Graduate Advisers ..... 10

    Bulletins ..... 10

    Tuition and Fees ..... 11

    Student Work and Financial Assistance ..... 11

    University Placement Services ..... 12

    Health Services ..... 12

    Graduate Degrees Offered ..... 12

        Grading System ..... 13

        Master's Degrees ..... 14

        Sixth-Year Specialist's Certificate Program ..... 16

        Doctor of Philosophy Degree ..... 17

INSTRUCTIONAL UNITS (Edwardsville) ..... 21

    Master of Arts and Master of Science Degrees ..... 21

    Master of Science in Education Degree ..... 21

    Sixth-Year Specialist's Certificate Program ..... 21

    Education ..... 21

    Literary and Linguistics Studies ..... 25

    Geographical Studies ..... 26

    Mathematical Sciences ..... 26

INSTRUCTIONAL UNITS (Carbondale) ..... 27

    Agricultural Industries ..... 27

    Animal Industries ..... 28

    Anthropology ..... 28

    Applied Science and Engineering Technology ..... 31

    Art ..... 32

    Asian Studies ..... 33

Biological Sciences .....	33
Botany .....	34
Business Administration .....	34
Chemistry .....	36
Community Development .....	37
Design .....	38
Economics .....	38
Education .....	40
Educational Administration and Supervision .....	41
Elementary Education .....	43
Engineering .....	44
Engineering Technology .....	44
English .....	44
Foreign Languages .....	45
Forestry .....	46
Geography .....	46
Geology .....	48
Government .....	49
Guidance and Educational Psychology .....	52
Health Education .....	53
Higher Education .....	53
History .....	54
Home Economics .....	54
Instructional Materials .....	56
Inter-American Studies .....	57
Journalism .....	58
Mathematics and Mathematical Sciences .....	58
Microbiology .....	60
Music .....	60
Philosophy .....	61
Physical Education .....	63
Physics .....	64
Physiology .....	65
Plant Industries .....	66
Psychology .....	67
Recreation and Outdoor Education .....	70
Rehabilitation .....	70
Secondary Education .....	72
Secretarial and Business Education .....	72
Sociology .....	73
Special Education .....	73
Speech .....	74
Speech Pathology and Audiology .....	75
Technical and Industrial Education .....	76
Theater .....	77
Zoology .....	78
COURSE DESCRIPTIONS .....	79
THE GRADUATE FACULTY .....	177
INDEX .....	189

# University Calendar



## *Summer Quarter, 1967*

Quarter Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Monday–Saturday, August 28– September 2
Commencement (Edwardsville)	Friday, September 1
Commencement (Carbondale)	Saturday, September 2

## *Fall Quarter, 1967*

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Vacation	Tuesday 10 P.M.–Monday 8 A.M., November 21–27
Final Examinations	Monday–Saturday, December 11–16

## *Winter Quarter, 1968*

Quarter Begins	Tuesday, January 2
Final Examinations	Monday–Saturday, March 11–16

## *Spring Quarter, 1968*

Quarter Begins	Monday, March 25
Memorial Day Holiday	Thursday, May 30
Final Examinations	Monday–Saturday, June 3–8
Commencement (Carbondale)	Friday, June 7
Commencement (Edwardsville)	Saturday, June 8





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· Board of Trustees and  
· Officers of Administration  
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BOARD OF TRUSTEES

*Term Expires*

Kenneth L. Davis, <i>Chairman</i> , Harrisburg	1969
Lindell W. Sturgis, <i>Vice-Chairman</i> , Metropolis	1971
Melvin C. Lockard, <i>Secretary</i> , Mattoon	1971
Martin Van Brown, Carbondale	1967
Harold R. Fischer, Granite City	1969
F. Guy Hitt, Benton	1971
Arnold H. Maremont, Winnetka	1967
Ray Page ( <i>Ex-officio</i> ), Springfield	
Louise Morehouse, <i>Recorder</i>	

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John G. Gallaher, Coordinator of Research and Projects (*Edwardsville*)  
Robert W. McGrath, Registrar and Director of Admissions (*Carbondale*)  
John H. Schnabel, Registrar and Director of Admissions (*Edwardsville*)

# The Graduate School 1

THE GRADUATE SCHOOL of Southern Illinois University was formally established in 1950 and is responsible for graduate instruction and research on the Carbondale and Edwardsville campuses of the University. All of its programs are flexible, and several are experimental. These characteristics enable the Graduate School to offer an unusual range of opportunities to students for graduate study. On its Carbondale Campus, the University offers the master's degree in 49 fields of study, the Sixth-Year Specialist's Certificate Program in education, and the Doctor of Philosophy degree in 19 fields. On its Edwardsville Campus, the University offers the master's degree in education, English, geography and mathematics, and the Sixth-Year Specialist's Certificate Program in education.

## THE ROLE OF THE GRADUATE SCHOOL

The primary concern of the Graduate School is the basic and applied research work carried on in all sectors of the University. The Graduate School therefore plays an essential role in the development of instructional and research programs, in the acquisition of funds, and in the procurement of facilities necessary to encourage and support the research of the members of its scholarly community. In addition, the Graduate School is a major contributor to the public services provided by the University to the region, the state, the nation, and a number of other countries. In all of its programs of instruction and research, the Graduate School sets a high standard of achievement. It is in those students who have demonstrated this quality of excellence by completing advanced courses of study and by achieving significant results in their research that the Graduate School makes its major contribution to the public welfare.

## THE UNIVERSITY LIBRARIES

*MORRIS LIBRARY, CARBONDALE*  
*LOVEJOY LIBRARY, EDWARDSVILLE*

The University Libraries contain nearly 1,000,000 volumes, and they subscribe to 9,000 periodicals. An average of 80,000 volumes is added to the collections each year.

The two libraries are united bibliographically by a printed catalog of their total holdings. There are arrangements for faculty and graduate students to borrow books through an inter-campus loan service.

Supplementing the resources of the University Libraries is the Center for Research Libraries, Chicago, Illinois. A card file on the Center's some 2,000,000 volumes is available on both campuses.

The Morris and Lovejoy Libraries have strong collections in American literature and history, especially in the 19th and 20th centuries, and on the Mississippi Valley. They include the Fred J. Kern collection of some 5,000 volumes dealing largely with materials on controversial political and social issues during the past fifty years; the Philip D. Sang collection of American-British fiction; books and manuscripts on Walt Whitman and Henry David Thoreau from the Charles E. Feinberg Library; and a rapidly expanding collection of federal, state, British, and United Nations documents. The Libraries' collection on American law provides most of the basic works for legal reference and research. The Libraries also have files of major American newspapers and a collection of some 90,000 maps.

In various forms of microtext, the Libraries now have or are purchasing:

1. The text of some 30,000 books, pamphlets, broadsides published in America from 1639 to the end of 1800 (Evans' *American Bibliography*).

2. The text of early English imprints (1475-1700) (*Short Title Catalogues*) and about sixty English literary periodicals of the 17th through 19th centuries.

3. Some 5,600 English and American plays of the 16th through 18th centuries.

4. Files of ninety-one American periodicals of the 18th century and several hundred of the 19th century.

5. Papers of the American Presidents and the American consuls abroad.

6. Thomas Jefferson's personal library in the Library of Congress and the Jefferson Collection at the University of Virginia.

7. The papers of General Ulysses S. Grant.

8. The papers and periodicals pertaining to Mormon history in Illinois from 1839 to 1848.

A major source for research in the behavioral sciences is the Human Relations Area Files, consisting of copies of about 1,500,000 documents, books, articles, field reports, and unpublished manuscripts covering 170 world cultures and taken from more than 3,000 sources. The File is one of twenty such collections in the nation.

In British history and literature the Morris Library possesses the H. K. Croessmann Collection of books and other published works by and about James Joyce, holograph letters and manuscripts, photographs, paintings, and a portion of Joyce's personal library.

Its Irish Renaissance holdings include letters and manuscripts of W. B. Yeats, Lady Augusta Gregory, A. E., James Stevens, Lennox Robinson, Sean O'Casey, Katharine Tynan, and other literary and political figures of the late 19th and early 20th centuries. In addition, there is a large book collection by these authors and related material on the Abbey Theatre.

The Morris Library recently acquired a large number of manuscripts of the prose and poetry of Robert Graves. Some 300 American and British writers, members of the expatriate group who lived and worked in Paris between the world wars, are represented in two notable collections of books and manuscripts—the Philip Kaplan and Caresse Crosby Collections, the latter containing the files of the Black Sun Press. Besides books and little maga-



zines, there are numerous letters, manuscripts, diaries, photographs, paintings of such writers as Richard Aldington, Maxwell Bodenheim, Kay Boyle, Hart Crane, Harry and Caresse Crosby, Floyd Dell, Ernest Hemingway, Lawrence Durrell, Ford Madox Ford, D. H. Lawrence, Henry Miller, Ezra Pound, Dylan Thomas, and William Carlos Williams. There is also a manuscript collection of the contemporary English poet, George Barker.

Beginning with the acquisition of the 7,000 volume library of Dr. José Mogrovejo Carrión of Ecuador in 1960, the Morris Library has systematically expanded its holdings in Latin American history, government, literature, and anthropology. Extensive files of Latin American serial publications from Argentina, Bolivia, Paraguay, Uruguay, Cuba, and Mexico provide a rich source for graduate study and research. Many of the publications in this collection are unavailable elsewhere in the United States.

In support of graduate studies in the sciences, the Library has expanded its current subscriptions and back files of journals and has been acquiring the publications of learned societies and foreign academies, including the Royal Society of London, the academies of Paris, Berlin, Munich, Leipzig, Amsterdam, Göttingen, Rome, and St. Petersburg.

Other major resources of the Morris Library include a collection of works by and about John Dewey; the R. Buckminster Fuller archives, comprising an extensive file of papers, correspondence, manuscripts, drawings and models of the internationally known engineer and designer; the archives of Henry Nelson Wieman, including a number of unpublished works; and a growing body of documents relating to local and regional history—family and business papers, town and county records.

## RESEARCH

Research is the special concern of the Graduate School because its faculty must engage in scholarly research activities to maintain its effectiveness and also because advanced instruction of graduate students consists mainly of guidance in research. For these reasons, University policies governing research are developed by the Graduate School and administered through it.

The Office of Research and Projects has been established in the Graduate School to assist in the continuing development of the research activities of the University. University support for individual research projects is available to faculty members through the special research projects program administered by this office. The Office of Research and Projects also supervises cooperative research projects and particularly assists applicants in the preparation and submission of research proposals that involve outside support from such sources as government, foundations, business, and industry.

## DATA PROCESSING AND COMPUTING CENTER

The Data Processing and Computing Center at Southern Illinois University provides service to faculty and students engaged in research. The Center, which has installations at the Carbondale and Edwardsville campuses, is

equipped with an IBM 7040, two IBM 1620, and three IBM 1401 computers. A variety of sorting and tabulating equipment is also available. The Center also has an MRC Docutran optical scanner for processing information directly from coded sheets.

Arrangements can be made for both faculty members and graduate students to avail themselves of the services and facilities of the Center at no cost.

## FELLOWSHIPS AND ASSISTANTSHIPS

Graduate fellowships are available in all areas of graduate study upon application to the appropriate chairman, and are awarded by the Graduate School upon a basis of scholarship. Recipients are permitted to carry normal graduate schedules. The stipend for the academic year is normally \$1800 to \$1980, plus remission of tuition but not other fees. There is no work requirement. Fellowships are ordinarily renewable for the summer quarter following the period of appointment. Students seeking a master's degree may hold a fellowship for no more than four quarters, while doctoral students are limited to a total of eight. Fellowships for the Summer and, in the case of doctoral students, for the second four quarters, depend upon recommendation by the student's major department. All application materials should be submitted before February 1 preceding the academic year for which the fellowship is desired. Inquiries may be addressed to the dean of the Graduate School or to the major chairman.

A number of preceptorships are offered by the University to students who are excellent teachers as well as superior scholars. These positions pay a stipend which ranges from \$275 to \$350 per month for the academic year, with the exact amount depending upon the assignment, experience, and academic achievement. Remission of tuition is granted, but fees must be paid. Service of 20 hours per week, or corresponding load in teaching, is required. Preceptors must carry no more than 12 hours and no less than 6 hours of credit per quarter. Inquiries should be addressed to the appropriate chairman before February 1 preceding the academic year for which the assignment is sought.

Teaching as well as nonteaching assistantships are available in a number of departments and research agencies. These positions pay a stipend which ranges from \$200 to \$325 per month, with the exact amount depending upon the assignment, experience, and academic advisement of the student. Rules applying to tuition, fees, and workloads are the same as those for preceptorships.

Special assistantships are available for doctoral students who have a master's degree from a university other than Southern Illinois University. Stipends and workloads are the same as for other assistants. Application should be made before February 1 through the chairman of the department or other academic unit in which doctoral work is offered, or inquiry may be made directly to the dean of the Graduate School.

National Defense Education Act Title IV fellowships are available to outstanding students in some departments offering doctoral work. Awards



are for three years with academic year stipends beginning at \$2000 and rising to \$2200 and then \$2400 in successive years, plus a dependency allowance. An additional amount is available for the summer. Traineeships through the National Science Foundation and the National Aeronautics and Space Administration are also available to outstanding students in some doctoral fields in the physical, biological, and social sciences. Stipends for twelve months begin at \$2400 and rise in successive years to \$2600 and then \$2800, with an additional dependency allowance in each case. Inquiry for each of these should be made to the chairman concerned, or directly to the dean of the Graduate School.

Research assistantships are available in a number of research agencies and projects. They ordinarily pay \$200–\$300 per month, with the exact amount determined by the assignment, experience, and academic achievement of the student. Remission of tuition is granted, but fees must be paid. Service equivalent to 20 hours per week is required. Research assistants are expected to carry no more than 12 and no less than 6 hours of credit per quarter. Inquiry should be addressed to the appropriate chairman or research director before February 1 preceding the academic year for which the assignment is sought.

## HOUSING

Single graduate students will generally find it desirable to locate private housing facilities. The Housing Office maintains current information on rooms, apartments, houses for rent or sale, and trailer parks and can assist in locating accommodations. All arrangements for housing and all business transactions in the matter of housing are the sole responsibility of the student and the owner of the housing facility.

Current information concerning housing facilities for off-campus married students is available in the Housing Office. Experience has shown that satisfactory arrangements cannot be made by mail. A personal visit is usually required. Prices vary widely, ranging from \$20 per month for trailer spaces to \$150 or more per month for houses and apartments.

## UNIVERSITY HOUSING

At Carbondale, University housing for married students includes 272 furnished one-bedroom, two-bedroom, and efficiency apartments and a 51-space trailer court.

The University is planning for a Graduate Residence Center which in the first phase will accommodate approximately 500 single graduate students. Because the demand for University housing for married students exceeds the supply, information should be requested early from the Housing Office.

The University has no student housing on the Edwardsville Campus.

## ADMISSION TO THE GRADUATE SCHOOL

Admission to the Graduate School at the master's level may be in one of three categories, unclassified, conditional, or unconditional. A student may be



placed in the unclassified category because he does not seek a degree, because he has applied too late for the term for which he seeks admission, or because his scholastic record does not qualify him for conditional admission. A student who seeks admission as an unclassified graduate student must present evidence that he holds a bachelor's degree.

A student should obtain application forms from the Graduate School and submit application, together with transcripts and other supporting material, directly to the Graduate School admissions office where it will be evaluated for compliance with Graduate School admission requirements. Only if these are met and if the student seeks a degree will the application be forwarded to the department or faculty in which the student indicates his desired major. The admission requirements of the Graduate School and the department or faculty must both be met before the student is admitted either conditionally or unconditionally, and both the Graduate School and the department or faculty may specify conditions. Several departments require additional materials such as test scores or letters of recommendation. The student will be informed of his admission status after this process has been completed. Admission to the Graduate School is determined almost entirely by the calibre of the applicant's previous college work.

To permit sufficient time for applications to be processed, these deadlines for receipt of applications and official transcripts have been set:

1. *The second Saturday in July for admission to the fall quarter*
2. *The last Saturday in October for the winter quarter*
3. *The last Saturday in January for the spring quarter*
4. *The last Saturday in March for the summer quarter*

Applications which are incomplete on the deadline date or are received later may be granted unclassified (nondegree) admission status for the quarter for which admission was originally sought. The application papers will continue to be processed for admission to a degree program only for the quarter following the one originally applied for. If the student decides to enter as an unclassified student, this will in no way influence the decision relative to his acceptance as a degree candidate. Whether work taken by a student who is unclassified because of late application will later count toward a degree will be decided by the Graduate School and the faculties concerned.

A student who wishes to enter the Graduate School immediately after graduation may submit his application when he is within one quarter or semester of graduation. He must also submit a transcript showing the work he has completed and the courses he is taking is necessary.

An undergraduate student who is within 16 quarter hours of a bachelor's degree may take courses for graduate credit by applying for admission to the Graduate School in the usual way. At the time of registration, he must also obtain the approval of the graduate dean to take such courses for graduate credit. He remains an undergraduate student officially until he completes his baccalaureate requirements.

A student who is applying for an assistantship or fellowship and who submits a transcript in support of that application must also submit an

application for admission and transcripts directly to the Graduate School for admission processing.

### ADMISSION TO GRADUATE STUDY FOR THE MASTER'S DEGREES

In order to receive unconditional admission from the Graduate School for study at the master's level, the applicant must hold a bachelor's degree and have a grade point average of 3.70 or higher ( $A=5.00$ ). A student with a grade point average of 3.40, but less than 3.70, may be granted conditional admission and will remain on conditional status until he earns 15 or more quarter hours of credit in graduate-level courses without obtaining more than one *C* grade and without obtaining any grade lower than *C* during the conditional period. No credit of *C* or lower earned while on conditional status will be applied on a master's program. Failure to meet these conditions will result in a student's being dropped from the degree program. A department, faculty, or other degree-program unit may add its own conditions for admission regardless of the grade point average.

A student with an undergraduate grade point average below 3.40 may be admitted only as an unclassified student. Of this category, those with grade point averages of 3.20, but less than 3.40, may seek to qualify for conditional admission by taking not less than 12 nor more than 24 quarter hours at the 300 or 400 level and earning an average of 4.00 or better on this work, *with none of these courses to count toward the degree*. Those with grade point averages of 3.00, but less than 3.20, may seek to qualify for conditional admission by taking 24 quarter hours of work at the 300 or 400 level and earning a 4.00 grade point average or better, *with none of these courses to count toward the degree*.

No applicant with an undergraduate grade point average below 3.40 may take more than 24 quarter hours in seeking to qualify for conditional admission, and no more than half the work should be taken in a single subject area. The student has no assurance that he will be accepted on conditional status after having taken this course of action. In deciding which courses to take while on unclassified status, he should seek the advice of the graduate adviser in the area in which he plans his major work.

### ADMISSION TO ADVANCED GRADUATE STUDY

An applicant for admission to graduate study beyond a master's degree may be admitted either conditionally or unconditionally. Conditions may be prescribed by both the Graduate School and the faculty of the program in which an applicant wishes to pursue his course of study. A student should first submit his application, together with transcripts and other supporting materials, to the Graduate School admissions office where it will be evaluated for compliance with admission requirements of the Graduate School. If these are met, the Graduate School will forward the credentials to the academic unit offering the major he indicates on his application, for action on admission to its degree program.

Admission to the Graduate School on the doctoral level requires a



master's degree or its equivalent, a grade point average in graduate work of 4.25 or above, and acceptance for the major by the department.

The dean of the Graduate School informs each student of any conditions imposed by the Graduate School or by the academic unit of his major. Among these conditions may be the successful completion of entrance examinations. All conditions must be fulfilled before the student can be admitted unconditionally.

Admission to the Sixth-Year Specialist's Certificate Program is based on an applicant's previous academic record, his educational experience, and his proposed goal. A graduate grade point average of 4.25 on a five-point grading scale is required. A master's degree from an accredited institution is regarded as the basic academic requirement for one wishing to pursue the sixth-year program.

In the College of Education and the Education Division a student seeking admission to a master's or the Sixth-Year Specialist's Certificate Program will ordinarily consult the adviser listed on page 10 for the department or faculty in which approval for a particular major is sought. However, a student seeking admission to a doctoral program in education must contact the coordinator of one of the three following functional areas:

Administration and Social and Philosophical Foundations  
George Bracewell, Coordinator

Curriculum and Instruction  
Clarence Samford, Coordinator

Educational Psychology  
John Cody, Coordinator

Doctoral admission is to a functional area, after which a program is built for a specialty within that functional area.

#### *ADMISSION OF INTERNATIONAL STUDENTS*

A student from abroad is subject to all requirements for admission established by the Graduate School. In addition, he must complete a questionnaire on his undergraduate education, submit a brief autobiography which should include a statement on his educational objectives, and obtain three letters of recommendation. These letters should be sent directly from their sources to the instructional unit in which the student wishes to enroll. The student should notify the University Admissions Office when the letters have been sent.

A score acceptable for graduate work on the Test of English as a Foreign Language (TOEFL), is required of each applicant. Information on testing dates and places may be obtained from the University Admissions Office.

To allow ample time for visa and other departure procedures, the applicant should have his application and all supporting documents on file



with the University no less than four months prior to his proposed entry date.

An international student must be enrolled in a program leading to a graduate degree. He cannot be admitted as an unclassified student.

If the above requirements are satisfactorily met and the student is admitted to a degree program, he will be required to certify to the University that he has adequate financial resources available to him to undertake and continue in a program of study.

Further information may be obtained from the University Admissions Office, Southern Illinois University, Carbondale, Illinois 62901 or Southern Illinois University, Edwardsville, Illinois 62025.

### ADVISEMENT

Each student admitted to the Graduate School is expected to consult a graduate adviser in the department or faculty of his major for assistance in planning his total program and in choosing courses each quarter. As soon as the student gains approval for a thesis topic and a thesis director, the latter is designated as chairman of the advisory committee. This committee advises the student in the preparation of the thesis or dissertation, evaluates its quality when completed, and supervises the final examination, written or oral, when one is required.

Maximum course work for graduate students is 18 hours each quarter; 12 hours is considered a normal load. The maximum for teaching assistants, graduate interns, and research assistants, who are employed half-time, is 12 hours and the minimum is 6 hours; for persons who are employed full-time the maximum is 8 hours; for persons attending the 8 weeks summer session, the maximum is 12 hours. These maxima may be exceeded only with the written permission of the dean of the Graduate School.

A graduate student is expected to plan his work carefully. Program changes after registration must be approved by the student's adviser and the dean of the Graduate School. They may involve payment of a program-change fee. Program change forms may be obtained from the Graduate Office.

The graduate student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by consulting periodically with his adviser. Responsibility for errors in program or in interpretation of regulations of the Graduate School and the University rests entirely upon the student. Advice is always available on request.

Since graduate work is carried on at both the Carbondale and Edwardsville Campuses, it is the student's responsibility to see that his records in the Graduate Office, Registrar's Office, and with his major adviser are brought together on the campus where he wishes to graduate, well in advance of the time of graduation. Student records cannot be processed and the student approved for graduation unless these records are available on the campus where graduation is to occur at least six weeks in advance of the time of graduation.

## GRADUATE ADVISERS

Following is the list of advisers to graduate students pursuing a master's degree. The first or only named person is at Carbondale, the second at Edwardsville.

- |  |   |
|--|---|
| Accounting—Ralph D. Swick  | Journalism—Bryce W. Rucker  |
| Agricultural Industries—Walter J. Wills                                    | Management—Claude Shell   |
| Animal Industries—Alex Reed  | Marketing—Paul M. Hoffman   |
| Anthropology—Charles Lange   | Mathematics—Carl Langenhop, Robert N. Pendergrass                 |
| Applied Science—Eldred Hough, Leonard Jones                                | Microbiology—Maurice Ogur   |
| Art—Milton Sullivan, Harry H. Hilberry                                     | Music—Robert E. Mueller, Lloyd G. Blakely                         |
| Biological Sciences—Edwin Galbreath, Ralph Axtell                          | Philosophy—Lewis E. Hahn, George W. Linden                        |
| Botany—William D. Gray   | Physical Education (Men)—Edward J. Shea, Richard D. Spear         |
| Business Administration—Charles Hindersman, Walter L. Blackledge           | Physical Education (Women)—Dorothy Davies, Zadia Herrold          |
| Chemistry—C. D. Schmulbach, F. H. Firsclins                                | Physical Sciences—(Chairman of the faculties involved)            |
| Community Development—John Hawley  | Physics—John Zimmerman, Lionel Walford                            |
| Design—Davis Pratt or Harold Grosowsky                                     | Physiology—Harold M. Kaplan                                       |
| Economics—Jerome Hollenhorst, Louis Drake                                  | Plant Industries—Alfred B. Caster                                 |
| Educational Administration and Supervision—J. H. Hall, George C. Ackerlund | Psychology—David Ehrenfreund, Erwin Brinkmann                     |
| Elementary Education—J. Murray Lee, Arthur Jordan                          | Public Administration—Seymour Z. Mann                             |
| Engineering—Eldred Hough   | Recreation and Outdoor Education—William H. Freeberg              |
| Engineering Technology—Eldred Hough  | Rehabilitation—Guy A. Renzaglia                                   |
| English—Howard Webb, Roy Cain  | Secondary Education—Clarence D. Samford, Gordon C. Bliss          |
| Finance—J. Van Fenstermaker  | Secretarial and Business Education—Harves C. Rahe, Mary M. Brady  |
| Foreign Languages—J. Cary Davis, Alfred G. Pellegrino                      | Social Studies—William Pitkin                                     |
| Forestry—John Andresen   | Sociology—Herman Lantz, Orvis Collins                             |
| Geography—Frank Thomas, Melvin Kazeck                                      | Special Education—James Crowner, James Bommarite                  |
| Geology—D. N. Miller, Jr.  | Speech—Ralph A. Micken, Hollis L. White                           |
| Government—Frank L. Klingberg, William Goodman                             | Speech Pathology and Audiology—Isaac P. Brackett, Hollis L. White |
| Guidance and Educational Psychology—Thomas E. Jordan, John McBride         | Technical and Industrial Education—Marvin Johnson                 |
| Health Education—C. E. Richardson, Zadia Herrold                           | Theater—Archibald McLeod, Andrew J. Kochman                       |
| Higher Education—Donald Robinson   | Transportation—Alexander R. MacMillan                             |
| History—George W. Adams, Allan J. McCurry                                  | Zoology—Harvey I. Fisher  |
| Home Economics—Eileen E. Quigley   |   |
| Instructional Materials—Paul R. Wendt, Eldon Madison                       |   |
| Inter-American Studies—Albert W. Bork                                      |   |

## BULLETINS

The *Southern Illinois University Bulletin* is published by the University and the issues are listed on page ii of this catalog.

## TUITION AND FEES

The tuition and fees charged students are established by the Board of Trustees and are subject to change whenever conditions make changes necessary. At the present time, fees per quarter for graduate students are as follows:

Tuition .....	\$ 42.00
(non-Illinois residents) .....	(172.00)
University Center Fee .....	5.00
Student Activity Fee .....	10.50
Student Welfare and Recreational Facilities	
Building Trust Fund Fee .....	15.00
Total .....	\$72.50
(non-Illinois residents) .....	(\$202.50)

Graduate students registered for 8 or fewer hours pay one-half tuition, full University Center fee, and have an option on paying the student activity fee. The student activity fee includes the fees for limited hospitalization, entertainment, partial athletics, the student newspaper and yearbook, and such other privileges as may be provided.

Teaching assistants and fellows do not pay tuition and have an option on paying the student activity fee. They pay other fees.

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. A matriculation fee of \$5, which is assessed a graduate student the first time he registers if he is not a graduate of Southern Illinois University.
2. A late registration fee, which is \$2 for the first day and which increases \$1 each day to a maximum of \$5 when a student registers after the regular registration period has ended.
3. A \$2 program-change charge whenever a student changes his program from the one for which he originally registered, unless the change is made for the convenience of the University.
4. A graduation fee of \$17; and, for doctoral candidates, a dissertation microfilming fee of \$25-\$35, depending upon the service selected.
5. Other charges which a student may incur are those for field trips, library fines, and excess breakage. A student taking a course involving use of materials, as distinct from equipment, will ordinarily pay for such materials.

## STUDENT WORK AND FINANCIAL ASSISTANCE

The University maintains an Office of Student Work and Financial Assistance Program, which includes work on and off campus, cooperative work-study programs, summer employment, the federal work-study programs, and scholarships, awards, prizes, grants-in-aid, private agency awards and student loan funds.



Additional information may be obtained from the Director of Student Work and Financial Assistance Program.

## UNIVERSITY PLACEMENT SERVICES

The University Placement Services assists students seeking employment after completion of their education. Its facilities are free to students, who are urged to register or up-date their papers during the fall quarter of each academic year. All inquiries concerning this service should be made to the Director of the University Placement Services.

## HEALTH SERVICES

The University maintains an infirmary which provides limited medical care for students, including 24-hour emergency service.

## GRADUATE DEGREES OFFERED

Graduate degrees are available in the following fields:

<i>MASTER OF ARTS</i>	<i>MASTER OF FINE ARTS</i>	Plant Industries
Anthropology		Psychology
Art	Art	Rehabilitation
Biological Sciences	<i>MASTER OF MUSIC</i>	Sociology
Botany	Music	Speech
Chemistry		Theater
Economics	<i>MASTER OF MUSIC EDUCATION</i>	Speech Pathology and
English	Music	Audiology
Foreign Languages		Technical and
Geography	<i>MASTER OF SCIENCE</i>	Industrial Education
Geology	Agricultural Industries	Transportation
Government	Animal Industries	Zoology
History	Biological Sciences	<i>MASTER OF SCIENCE IN EDUCATION</i>
Inter-American Studies	Botany	Art
Journalism	Business	Biological Sciences
Literary and Linguistic Studies	Chemistry	Chemistry
Mathematics	Community Development	Educational Administration and Supervision
Microbiology	Design	Educational Psychology
Philosophy	Economics	Elementary Education
Physical Sciences	Engineering	English
Physics	Engineering Technology	Foreign Languages
Physiology	Forestry	Geography
Psychology	Geography and Geographical Studies	Guidance
Rehabilitation	Geology	Health Education
Sociology	Home Economics	Higher Education
Speech	Journalism	Home Economics
Theater	Mathematics or Mathematical Sciences	Instructional Materials
Speech Pathology and	Microbiology	Mathematics
Audiology	Physical Sciences	Physical Education
Zoology	Physics	Physical Sciences
<i>MASTER OF BUSINESS ADMINISTRATION</i>	Physiology	Physiology
Business		Recreation and Outdoor Education

Secondary Education	<i>DOCTOR OF PHILOSOPHY</i>	Journalism
Secretarial and Business Education		Mathematical Sciences
Social Studies		Microbiology
Special Education		Philosophy
Speech		Physiology
Theater	Anthropology	Psychology
Speech Pathology and Audiology	Botany	Sociology
Technical and Industrial Education	Chemistry	Speech
	Economics	Theater
	Education	Speech Pathology and Audiology
	English	Zoology
	Geography	
	Government	
	Home Economics	

### GRADING SYSTEM

Grades are recorded by the letters *A, B, C, D*, and *E* ( $A=5.00$ ). Other grades may be:

*W*—Authorized withdrawal made through a program change where no basis for evaluation has been established. Work may not be completed. This grade is not included in grade point computation for retention purposes.

*Wp*—Authorized withdrawal made after first four weeks through a program change with a passing grade. Work may not be completed.

*WE*—Authorized withdrawal made through a program change after the first four weeks with failing grade. Work may not be completed, but grade is included in calculation of average.

*Inc.*—Incomplete. Has permission of instructor to be completed within a time period designated by instructor, but not to exceed one year from the close of quarter in which course was taken. If *Inc.* remains, it is not included in grade point computation. To complete the work, a student should not register for the course again but should complete the work from the original registration.

*Def.*—Deferred. Used only for graduate courses of an individual, continuing nature such as thesis or research. When the work is completed, grade is changed to a letter grade.

*Ab*—Unauthorized withdrawal. Used when student fails to continue in attendance, but does not withdraw through a program change. Counted as an *E* in calculating grade point average.

*S*—Satisfactory. Used only for noncredit courses.

*U*—Unsatisfactory. Used only for noncredit courses.

*Au*—Audit. A student registering for a course on an "audit" basis receives no letter grade and no credit hours. An auditor's registration card must be marked accordingly and he pays the same fees as though he were registering for credit. A student registering for a course for audit may change to a credit status or vice versa through the official program change method during the first four weeks of a quarter. Thereafter the change may not be made.

Note: Letter grades *A, B, C, D*, and *E* as well as the grades *WE* and *Ab* are included in grade point averages for academic retention. Authorized withdrawals made through a program change during the first four weeks of the term do not carry a grade.



## MASTER'S DEGREES

### GENERAL REQUIREMENTS

Forty-eight hours of acceptable graduate credit are required for a master's degree, except in the Carbondale programs in fine arts, where 60 hours are necessary, and in psychology, rehabilitation counseling, and college student personnel work, where 72 hours are required. At least 24 hours must be earned in courses numbered 500 or above. No more than 16 hours earned for work done at another university, or in extension, or both together, may be counted toward the degree. An evaluation of transfer credit is made in every case and may result in a reduction of the credit offered. Only in unusual circumstances will transfer credit be given for work bearing a grade below *B*. No credit toward the degree may be earned by correspondence.

Only credit earned within a six-year period preceding the completion of requirements for the degree, whether at Southern Illinois University or elsewhere, will be counted toward the degree.

Ordinarily a graduate student is expected to select both a major and a minor field, but he may be permitted by his advisory committee and the dean of the Graduate School to concentrate his efforts in one particular area of study. The graduate major, in most fields, consists of a minimum of 30 hours of credit in the chosen area of study; some fields, however, require as many as 40 hours for the major, in which case no minor is required. The graduate minor consists of a minimum of 15 hours. A student may have a double major recorded upon completing the necessary number (60 hours) of designated courses.

Each candidate for a master's degree shall write a thesis except where a graduate program has been approved by the Graduate Council to provide for some other arrangement. The thesis may be counted for not more than 9 nor less than 5 quarter hours of credit. For nonthesis Programs, a research paper should show evidence of the student's knowledge of research techniques and should be based on a special project or specific courses as may be recommended by the advisory committee. The subject of the thesis is to be reported to the Graduate School by the student and is to be approved by the chairman of the advisory committee and the dean of the Graduate School at least two quarters before the date of graduation. Two copies of the approved thesis (the original and first carbon) must be presented to the Graduate School at least five weeks prior to the date of graduation, to be bound and shelved in the library.

Each candidate for a master's degree is required to pass a comprehensive examination covering all of his graduate work, including the thesis. This examination may be written or oral, or both, as determined by the student's advisory committee.

Each student whose native tongue is not English, and others having an undergraduate grade point average below 3.70, must satisfy the graduate English requirement by passing the Graduate English Examination. The examination is offered by the Student Counseling and Testing Center once



each quarter. After two failures, a period of six months must elapse before the student may take it again. After three failures, the student may not attempt the examination without permission from the dean of the Graduate School. The graduate English requirement must be satisfied before the student has completed 24 quarter hours.

Candidates are expected to meet requirements in force during the year of graduation, but due consideration will be given the fact that a student may have been admitted and may have planned his work when other requirements were current. Important changes in requirements are put into effect gradually. It is especially important that the following data should be kept up to date on the student's record in the graduate office: the major and minor, the degree for which the student is a candidate, the name of the chairman of the advisory committee, and the thesis adviser.

The following deadlines are stated for the guidance of the candidate for the master's degree:

1. The graduate English examination is to be taken during the first quarter in which he is enrolled in a course given for residence credit.
2. Any foreign language requirement is to be met at least three months prior to graduation.
3. The thesis subject is to be approved by the chairman of the advisory committee at least twenty weeks before the date of graduation and is then to be reported by the student to the Graduate School.
4. The completed thesis should be presented to the dean of the Graduate School at least five weeks before graduation.
5. The preliminary checkup and application for graduation are to be made with the Graduate School and the Registrar's Office at least five weeks prior to the graduation date. Application forms, which may be secured from the Registrar's Office, should be completed and returned to that office after payment of the graduation fee at the Bursar's Office.

#### MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

A reading knowledge of a foreign language is required in all cases for the Master of Arts degree. The foreign language requirement is to be fulfilled at least three months prior to graduation. For the Master of Science degree, this requirement is adjusted to the field of study chosen.

#### MASTER OF BUSINESS ADMINISTRATION DEGREE

A minimum of 48 quarter hours of course work plus a terminal examination (oral, written, or both) are required. Candidates who receive permission to write a thesis must complete a minimum of 44 quarter hours of course work plus an acceptable thesis, for which 8 quarter hours of credit are assigned.

#### MASTER OF FINE ARTS DEGREE

Sixty hours of acceptable graduate credit are required for the Master of Fine Arts degree, of which a minimum of 24 hours must be on the 500 level. Further information may be obtained by writing the dean of the Graduate School.

## MASTER OF MUSIC AND MASTER OF MUSIC EDUCATION DEGREES

Forty-eight hours of acceptable graduate credit are required for the Master of Music and Master of Music Education degrees, of which a minimum of 24 hours must be on the 500 level.

## MASTER OF SCIENCE IN EDUCATION DEGREE

Forty-eight hours of credit are required for the Master of Science in Education degree. A candidate for the degree who is a prospective teacher in the public schools of Illinois must meet the minimum educational requirements for teaching in Illinois, as established by the State Teacher Certification Board. Any exception to this rule must be approved by the Dean of the College of Education, the Dean of the Education Division, and the Dean of University Graduate Studies and Research. The student should seek counsel regarding the completion of these requirements before his first enrollment for graduate work.

A thesis is normally expected of students working towards this degree, except that the programs in educational administration and elementary education have been approved as nonthesis programs. For students in these programs, a research paper is required and the student is required to take Educational Administration 500 or a similar research course, as well as Guidance 420 or 422 in lieu of the thesis. There is no foreign language requirement for the Master of Science in Education degree.

SIXTH-YEAR SPECIALIST'S  
CERTIFICATE PROGRAM

The Sixth-Year Specialist's Certificate Program is for a qualified student with a master's degree or its equivalent who wishes to pursue a planned sixth-year program leading to specialization in an educational field. Certain sixth-year courses of study developed and offered in professional education areas have been approved by the Graduate Council with the following minimum requirements.

Students seeking admission to the Sixth-Year Specialist's Certificate Program will follow the same procedures that apply to admission to other graduate programs. Admission requires a grade point average of 4.25 for graduate work. Departments or divisions may establish a higher scholarship requirement for admission and may use whatever selective criteria are appropriate to the field of specialization. The student's previous work shall have provided a proper base of general and special preparation for the sixth-year studies; if this is lacking, additional work must be taken to establish the base. Two years of experience relevant to the specialized field are required.

An advisory committee of three members for each candidate shall be appointed by the dean of the Graduate School upon the recommendation of the chairman or head of the respective department, faculty or division.

A minimum of 45 quarter hours of work beyond the master's degree or its equivalent is required. This work must be planned early by the student and his advisory committee, must clearly move the student toward the spe-



cialization he seeks, and must conform to a Sixth-Year Specialist's Certificate Program approved by the Graduate Council. A minimum grade point average of 4.25 for all work in the Sixth-Year Specialist's Certificate Program is required. A maximum of 20 hours at the 400 level may be taken, of which not more than 12 may be in the College of Education or the Education Division. A combined maximum of 9 quarter hours of graduate credit earned in extension and in other graduate schools may be counted. All such work must be approved by the student's advisory committee and must carry a grade of *B* or better. No credit earned through correspondence or used in attaining another degree or certificate may be counted.

Credit earned before September, 1966, while a student was on unclassified status will not count in his program unless approved by his advisory committee. After September, 1966, no credit earned while the student was on unclassified status will count except credit earned while the application for admission was being processed, and then only with the recommendation of the advisory committee. All credit must have been earned within seven years prior to the completion of the program.

Full-time, full-load residence of one quarter (or two summer sessions of at least eight weeks each) is required. Students who are employed full time may not carry more than one course per quarter.

With the prior approval of the student's advisory committee, credit toward the Sixth-Year Specialist's Certificate Program may be earned at both campuses of the University in programs approved on both campuses by the Graduate Council.

### *DOCTOR OF PHILOSOPHY DEGREE*

The Doctor of Philosophy degree is awarded for high accomplishment in a particular discipline or a recognized interdisciplinary area, as measured by the student's ability to pass formal courses and a comprehensive examination, perform a piece of original research, write his results in proper form in a dissertation, and defend his dissertation with distinction before a faculty committee. The taking of formal courses is an essential part of the process of preparation for the Doctor of Philosophy degree, but the passing of such courses will not in itself qualify the student for the degree.

A student will generally prepare for his comprehensive examination by taking a minimum of 48 quarter hours of graduate credit beyond the master's degree, or its equivalent. He will then be required to perform research and write a dissertation, which ordinarily will credit him with 36 to 48 quarter hours, but the total number of hours beyond the master's degree (dissertation plus other course credits), will be 96. All work at other institutions offered in partial fulfillment of requirements for the Doctor of Philosophy degree is submitted to the Graduate School for approval when the student seeks admission to candidacy. Any such transfer of credit will be subject to the following rules: (1) that it be made an integral part of the student's total plan; (2) that it be of excellent quality; (3) that it be earned within the preceding five years (credit earned more than five years prior to the request may be rejected or accepted for partial value); and (4) that in no case will the acceptance of transfer credit reduce basic residence require-



ment or reduce such basic tools or requirements as the student's committee may prescribe. No more than 24 hours beyond the master's degree or its equivalent may be transferred from another university, except in cases in which the student's advisory committee recommends that work be taken elsewhere.

A student must satisfy the residence requirements only at a campus of the University where a doctoral program in his major has been fully approved. Work transferred from another campus of the University must have been part of the doctoral program planned and approved by his advisory committee, but in no case may exceed 24 quarter hours.

An average of 4.25 ( $A=5.00$ ) is required, as a minimum, for the Doctor of Philosophy degree. No course in which the grade is below *C* counts towards the degree; however, the grade does count in the student's average. Each student admitted to advanced standing in the Graduate School is required to maintain a grade point average of at least 4.25.

Each candidate for the Doctor of Philosophy degree shall be required to demonstrate competence in two research tools chosen by his advisory committee from a list approved by the Graduate Council. These shall embody skills needed in understanding materials in the fields, or in the conduct of research for their dissertation, or in their continuing research contributions in their fields of specialization. Approved research tools include Foreign Languages (one language is one research tool), Statistics, and Computer Programming. Proficiency examinations are required for languages and computer programming, and may be used for statistics. If courses are taken to satisfy any research tool requirement, those courses will not count toward the minimum credit requirement for the degree. A student whose native tongue is not English may offer English as one language, and will demonstrate his proficiency in his course work. The student's native tongue is not acceptable as a research tool. The research tool requirement must be satisfied before the student may take the preliminary examination.

Language examinations will be given once each quarter in French, German, Russian, and Spanish. Examinations in other languages may be given by special arrangements in cases where the student's advisory committee recommends and the dean of the Graduate School approves use of another language because of its need in dissertation research. The examination will be based on general materials selected by the Department of Foreign Languages and passages selected by the examiner from specialized materials submitted by the student with approval of his advisory committee.

If a student fails an examination in a particular language twice, he will be required to take the course 161 in that language before taking the examination again. After a third failure of the doctoral examination in the same language, the student must successfully petition the dean of the Graduate School before taking the examination a fourth time.

A student whose advisory committee chooses statistics as a research tool may demonstrate proficiency by passing a graduate sequence of courses in statistics with a grade of *B* or better in at least 2 of the 3 courses of the sequence, or by passing a proficiency examination equivalent to the final examination in the final course of the sequence, administered by the in-

structor in that sequence, also with a grade of *B* or better. Statistics sequences in the Department of Mathematics that satisfy the statistics requirement are Mathematics 410a,b,c, or 410a,b,d; 480a,b,c, or 483a,b,c. Another possible sequence is Guidance 422b or Psychology 421, followed by Guidance 520a,b.

The student for whom the computer programming option is chosen will demonstrate that he can competently use two programming languages, ALGOL and one other language. He will be required to pass a written examination, and then to demonstrate that he has developed some sophisticated skill in the use of the computer languages by writing programs to accomplish specified tasks. Any courses taken to help achieve the necessary skills cannot be used for credit toward a Doctor of Philosophy degree.

Each student accepted for study in a doctoral program is admitted on a provisional basis and remains so until he is admitted to candidacy for the degree. Admission to candidacy takes place after the student has fulfilled the credit hour and the research tool requirements and passed preliminary examinations. Preliminary examinations will cover all areas of the discipline in which the student is working, plus such outside areas as his advisory committee may designate. It will ordinarily be part written and part oral.

In order to earn the Doctor of Philosophy degree one must be in full-time residence for a minimum of two academic years on the campus of Southern Illinois University where a doctoral program has been approved. In exceptional cases, a student with two years of graduate study elsewhere will be permitted to take the preliminary examinations provided he has fulfilled the research tools requirement. If such a student passes the preliminary examination, he may complete the requirements for the Doctor of Philosophy degree by devoting a third year to research in residence. A student may satisfy up to one year of residence requirement by attending summer quarters at Southern Illinois University. Full-time attendance during three summer quarters is the equivalent of one academic year's residence.

The term residence means physical presence of a candidate from day to day, in the immediate area in which classes are offered, complete University library facilities are available, and academic supervision can be provided at any time at the discretion of the advisory committee. A student shall be considered in full-time residence only during those quarters in which he shall be registered for at least 12 hours of credit. Students carrying less than 12 hours shall be granted a prorated share of residence credit.

All work for the Doctor of Philosophy degree must be completed in not more than five calendar years from the close of the quarter in which the student is admitted to candidacy. If completion of requirements is delayed beyond that time a student may be required to take another preliminary examination and be admitted to candidacy a second time. Appeals based on very unusual circumstances beyond the control of the student should be addressed to the dean of the Graduate School. At least six months must elapse between the passing of preliminary examinations and the completion of all degree requirements.

A dissertation showing high attainment in independent, original scholarship or creative effort shall be submitted as partial fulfillment of the re-



quirement for the Doctor of Philosophy degree. It shall be supervised by a faculty member who is approved by the dean of the Graduate School and who thus becomes chairman of the candidate's advisory committee. The topic of the dissertation must be approved by the supervisor and by the Dean of the University Graduate Studies and Research before the project is undertaken.

The student must register for the course, Dissertation 600, on a full-time or fractional basis for at least three normal full-time quarters or their equivalent. The grade will be deferred until the dissertation is completed and approved.

All dissertations will be microfilmed according to a plan approved by the Graduate School. Five weeks before the date of graduation, the candidate must have fulfilled the following requirements: (1) submission to the Graduate School of two approved, typewritten copies of his dissertation (one the original copy) and a signed microfilm contract; (2) submission to the Graduate School of an abstract of the dissertation of 600 words or less (or a description of the project, if it is a creative work); and (3) payment of \$25.00 to cover cost of publication of the abstract and microfilming of the dissertation (if copyright is desired, an additional fee will be required).

#### SUMMARY OF REQUIREMENTS

1. Forty-eight hours of credit beyond a master's degree or its equivalent, plus the dissertation are required. The total requirement beyond the master's degree is 96 hours or its equivalent.

2. The dissertation shall represent at least three quarters of full-time work and at least 36 hours of credit.

3. Credit up to 24 hours beyond a master's degree may be transferred from another institution. Upon the recommendation of the advisory committee that work be taken elsewhere, more transfer credit may be approved.

4. A grade point average of 4.25 in graduate work is required for admission to a doctoral program and for final qualification for the degree. No course in which a grade below *C* is earned shall count toward the degree; however, the grade shall count in the student's grade point average.

5. Proficiency in two research tools must be demonstrated before a student takes the preliminary examinations. The two research tools are chosen by the advisory committee from a list approved by the Graduate Council. Choices are foreign languages (one language is one research tool), statistics, or computer programming.

6. Two academic years, or the equivalent, of full-time graduate work in residence are a minimum requirement. Each student must spend at least three successive full-time quarters in residence.

7. The degree may not be conferred less than six months nor more than five years after admission to candidacy. Admission to candidacy follows successful completion of 48 hours of course work beyond a master's degree, the research tools requirement, and the preliminary examinations.

8. Each student must submit with the approved dissertation a signed microfilm contract and evidence of payment to the University of the microfilm fee.



# Instructional Units 2

## EDWARDSVILLE

The Master of Arts and the Master of Science degrees, with work in education, English, geography, and mathematics, are offered on the Edwardsville Campus. The Master of Science in Education degree, with an academic concentration in elementary education, guidance, administration and supervision, special education, and approved areas of secondary education may also be completed on the Edwardsville Campus.

Graduate courses taken on one campus of Southern Illinois University may be used for degree-earning purposes at the other campus, but the courses must be approved by the major adviser for a student's specific program of study. A student working for a graduate degree other than the Master of Arts in English, geography, and mathematics, the Master of Science degree in geography, and mathematics, the Master of Science in Education Degree and the Sixth-Year Specialist's Certificate Program, must enroll at Carbondale and have a major adviser there, but he can take a part of his work toward a master's degree at the Edwardsville Campus, provided that the specific courses needed are available at Edwardsville and that they have been authorized for his program by his adviser.

### *MASTER OF ARTS AND MASTER OF SCIENCE DEGREES*

See page 15 of this Catalog.

### *MASTER OF SCIENCE IN EDUCATION DEGREE*

See page 16 of this Catalog.

### *SIXTH-YEAR SPECIALIST'S CERTIFICATE PROGRAM*

See page 16 of this Catalog.

### *EDUCATION*

The Education Division offers graduate programs leading to the Master of Science in Education degree and the Sixth-Year Specialist's Certificate Program. At both levels, programs are available in educational administration and supervision, elementary education, secondary education, and guidance. The program in special education leads to the master's degree only.

## MASTER'S DEGREE

For the Master of Science in Education degree, each student must complete an approved 48 hour program of study, which must include at least 24 hours earned in courses numbered 500. He must maintain a grade point average on all graduate courses of no less than 4.00 on a 5.00 scale. Each student must also file with the Graduate Office a research paper approved by the Education Division. In addition, he must pass a comprehensive oral final examination and fulfill all requirements of the Graduate School.

Each student who expects to work in the elementary or secondary school must meet the requirements for a teacher's certificate appropriate for his area as a prerequisite for completing a master's degree program. Students wishing to concentrate in Guidance for future work in business personnel offices or for pastoral counseling shall meet the appropriate prerequisites for each of these areas. The student's adviser shall determine what prerequisites must be met.

Each program includes three areas of study: (1) the general-professional core, (2) the cognate field, and (3) the field of specialized-professional studies.

1. *The general-professional core*: The general-professional core consists of a block of studies that meets the pattern set forth below of 16 hours in general-professional courses for all students in education.

The courses for the core shall be chosen with the approval of the student's adviser for his field of specialization and to avoid duplication of undergraduate courses. The student shall take one course from each of groups *a* and *b* of the general-professional courses listed below. He will also take two courses from groups *c*, *d*, and *e* but the two must not be in the same group. If the student has taken any of the listed general-professional courses which may be out-dated for application to a master's degree program, he may substitute for each such course some other graduate course in education which his adviser will approve as a part of his 16 hours of general-professional work.

*a. Measurement and Statistics*: Guidance 420, 422, 520, or 522.

*b. Research*: Educational Administration 500 (required by all).

*c. Curriculum*: Educational Administration 560, Elementary Education 561, Secondary Education 550, 562, or Guidance 542.

*d. Developmental Psychology and Learning*: Guidance 511, 515, 525, 562a, 562b; Special Education 414; or Psychology 407.

*e. Social Foundations*: Educational Administration 431, or 554, 502.

2. *The Cognate Field*: The student shall take at least 15 hours in one cognate field or earn 12 to 18 hours in elective courses related to his teaching field, except for the student specializing in secondary education where a concentration consisting of 16 to 32 hours will substitute for the secondary concentration. In appropriate instances, the adviser may substitute needed education courses for some academic courses. This might be done where the student has strength in the latter but is deficient in the general-professional studies in education.

3. *The Specialized-Professional Field*: In addition to the core require-



ments, the student shall complete 14 hours or more in a sequence of study within a field of specialization in education, except in secondary education in which 8 to 16 hours are required. Specialties may be selected from the areas of educational administration and supervision, elementary education, guidance, secondary education and special education. The adviser will plan with the student a balanced program that will build on the student's prior preparation for teaching.

#### EDUCATIONAL ADMINISTRATION AND SUPERVISION

The specialization in educational administration includes the following sequence: Guidance 420 or 422, Educational Administration 456, 500, 524, 560, Elementary Education 557, and Secondary Education 564; Eight hours of additional required courses may be selected from Educational Administration 420, 502, 520, 554, Elementary Education 561, Secondary Education 508, 550, 562 or Guidance 542.

Students specializing in instructional supervision must select work in the following sequence: Guidance 420 or 422, Educational Administration 500, 560, Elementary Education 561 or Secondary Education 508, 550, 562, Educational Administration 524, 456, 556, and Guidance 515.

Candidates whose background does not include a strong academic concentration are encouraged to pursue a secondary concentration in an academic area. Candidates with strong undergraduate academic concentrations may take work in foundations, guidance, elementary or secondary education.

#### ELEMENTARY EDUCATION

Programs in elementary education are developed for the class room teacher and for those who wish to concentrate in one of the following areas: language arts, reading, social studies, elementary mathematics and elementary science. Each of these areas includes 16 hours in the general-professional core of courses, a carefully planned sequence of 16 hours in elementary education and 16 hours of electives. The electives may be used to give breadth to the student's course of study or provide a degree of specialization.

A total of 48 hours is required for these programs.

Students specializing in elementary education will select courses from the following: Elementary Education 415, 441, 442, or 541, 437 or 505, 542, 543.

#### GUIDANCE

The purpose of this program is to develop skills and techniques as they relate to the counselor's role. An understanding of human behavior, the helping relationship, counseling skills and technical competencies are stressed.

Prescribed course sequences and integration of content material are considered essential in program planning. The student's progress is reviewed after completion of the first 24 quarter hours, therefore the following courses must be taken during that period: Guidance 420, 422, 542, 412 (Psychology 432 may replace Guidance 412). The remainder of the program must include the following in approximately this sequence: 562a or b, 537, 522, 545j and 541. During the first half of the program, an orientation



to research techniques is considered essential. Educational Administration 500 or the equivalent research methods course is required. The student's adviser especially should be consulted in this phase of his program.

If a student plans to take a practicum experience as part of his master's program, he should take it at the end of the integrated sequence of courses.

#### SECONDARY EDUCATION

A program consisting of a minimum of 48 hours of work (16 hours in the general-professional core of courses, 8 to 16 hours in secondary education, and 16 to 32 hours in one of the undergraduate teaching subjects and/or cognate courses) will be arranged jointly by the adviser of secondary education and the adviser of the subject matter area in which the student plans to teach. The student's undergraduate record, experience and plans will be taken into account in determining the number of courses in secondary education and subject matter to be taken. Appropriate elective courses will be selected for those who plan to work in junior colleges or other institutions of higher education.

With the approval of his adviser, each student specializing in secondary education must select 8 to 16 hours (usually 8) of work in the following: Secondary Education 407, 505, 564, 570, 575, or 579; Special Education 414, Guidance 542, 543 or 562b; Instructional Materials 406, 417 or 546. The student is encouraged to take a special methods course in his teaching field.

#### SPECIAL EDUCATION

The program in Special Education leading to a Master of Science in Education degree is designed to prepare teachers of exceptional children and to enable them to qualify for certification to teach specific types of exceptional children. To be admitted to the degree program, the student must have a valid teaching certificate or he must qualify for one.

Students may specialize in an area of Special Education including the educable mentally handicapped, the emotionally disturbed and the gifted. Each of these sequences requires certain background courses, such as child psychology, mental hygiene and educational measurement. Students specializing in the educable mentally handicapped and the emotionally disturbed may also be required to take selected elementary education courses at the discretion of their advisers.

The program in the educable mentally handicapped prepares experienced educators to teach children in state-approved classes. The core sequence includes, in order, the following Special Education courses: 414, 428, 410b, 413b, 481b, 420b and 577.

The program in the emotionally disturbed is designed to prepare teachers of emotionally disturbed children in public schools or in institutions treating such children. The core includes the following sequence of Special Education courses: 414, 410a, 413a, 481a, 420a and 577.

Experienced teachers enrolling in the program for the gifted must take the core sequence which includes the following Special Education courses: 414, 410c, 413c, 481c, 420b and 577.

All students in these sub-specialties must take a course in research methods and submit a research paper approved by their graduate advisers. They must select electives in consultation with their advisers.

A fourth specialty is the Administration of Special Education. Applicants for this program must have teaching experience in Special Education. Since students in this program will have a wider range of skills and possess diversified backgrounds, broad programs are planned for two major objectives: (1) to give the student an understanding of and experience with several types of exceptional children, especially in sub-areas in which he has not taught, and (2) to develop his administrative competencies.

Local and state resources are used to give the student direct experience with exceptional children. These include the public schools of Madison and St. Clair counties, the Alton State Hospital and State Department of Mental Health; Specialized Services; Easter Seal Society and the Madison County Health Center.

#### THE SIXTH-YEAR SPECIALIST'S CERTIFICATE

*Educational Administration and Supervision.* Admission standards for the Sixth-Year Specialist's Certificate Program parallel the admission requirements for the Doctor of Philosophy degree program. Student admitted on a provisional basis must have the consent of the Dean of University Graduate Studies and Research. All candidates must have the master's degree or its equivalent. Prerequisites to this program include the required courses for the Master of Science in Education degree in educational administration.

The program leading to the Sixth-Year Specialist's Certificate Program includes 8 hours of graduate courses in the foundation field, 16 hours in the area of educational administration, 5 hours in a field study, and either 8 hours in an internship or practicum, or additional course work for those with extensive administrative experience. The areas of specialization, the practicum, and the field study are individually planned in terms of the candidate's professional goals. Eight hours of cognate course work is also required. A comprehensive oral or written exam is required.

*Secondary Education.* Admission standards for the Sixth-Year Specialist's Certificate Program parallel the admission requirements for the Doctor of Philosophy degree program. All candidates must have the master's degree or its equivalent.

The work leading to the Sixth-Year Specialist's Certificate Program is arranged in terms of the needs and objectives of the student. The program is designed to extend the competence of class room teachers in the junior and senior high schools and the junior college. Candidates admitted to the program plan with an appointed committee an appropriate sequence of education and cognate courses of at least 45 quarter hours of credit. The candidate will complete a field study or a practicum or both at the discretion of his committee. A comprehensive oral or written exam is required.

#### LITERARY AND LINGUISTIC STUDIES

Graduate courses in English may be taken for work leading to the Master of Arts degree in Literary and Linguistic Studies and for the subject-matter



major in the Master of Science in Education Program. Inquiries about admission to graduate study should be sent to the graduate adviser, Faculty of English Language and Literature, Southern Illinois University, Edwardsville, Illinois 62025.

The Master of Arts degree in Literary and Linguistic Studies at the Edwardsville Campus permits the student to elect to write a thesis or to take a comprehensive examination. For either program the student must satisfy the following requirements:

1. Complete at least 48 hours of satisfactory course work in English.
2. Take English 500 in the first term it is available.
3. Take one course in English linguistics at the 400 level or take English 501.
4. Present two years of course work at the college level in a modern or a classical foreign language with at least a *C* average, or demonstrate proficiency in a foreign language.

For the thesis election:

1. Submit to the chairman, Faculty of English, an accepted thesis.
2. Pass a one-hour oral examination on the thesis and related areas.

For the comprehensive examination:

1. Submit to the chairman, Faculty of English, a clean copy of the research paper best representing his graduate work, such paper to have received a grade of *A* or *B* in an English course at the 400 or 500 level.
2. Pass the master's comprehensive examination on a reading list in English and American Literature and Linguistics.

### *G E O G R A P H I C A L   S T U D I E S*

Programs leading to the Master of Arts, Master of Science, and Master of Science in Education degrees are offered. The basic requirements in each of the programs are similar and require: (1) a core program in the major subject area of geography; (2) a competence in a specialized area; and (3) a thesis or its equivalent to demonstrate research ability. Areas of specialization are cartography, cultural, economic, physical, planning, and urban geography. These specialization programs may include course work from related departments. Students not having an undergraduate major in geography are required to take undergraduate course work in deficient areas.

Application for admission should be made to the chairman of the faculty. The chairman will advise all graduate students prior to the appointment of a graduate adviser. A comprehensive preliminary examination is required and will be used in advising students. An oral defense of both the thesis outline and the completed thesis is required.

All general requirements of the Graduate School must be met.

### *M A T H E M A T I C A L   S C I E N C E S*

Graduate work in mathematical sciences is offered leading to the Master of Arts, Master of Science, and Master of Science in Education degrees. In addition to the general requirements of the Graduate School the following specific requirements apply for the degrees indicated:



MASTER OF ARTS DEGREE

1. At least 40 of the required 48 hours of graduate credit must be in mathematics. Course work must include: Mathematics 501–9, 520–9, and Mathematics 555–6.
2. A thesis which carries from 5 to 9 hours credit.
3. Reading ability in mathematical literature in French, German, or Russian.
4. Satisfactory performance on a written examination on (1) Real Analysis, (2) Algebra, and (3) Complex Variables.
5. Satisfactory performance on an oral examination over the thesis and other topics that are deemed appropriate by the examining committee.

MASTER OF SCIENCE DEGREE

1. At least 32 of the required 48 hours of graduate credit must be in mathematics. Course work must include two of the following three sequences: Mathematics 501, 520, and 555.
2. A thesis or a research paper.
3. Satisfactory performance on a written examination over three areas, two of which must be chosen from the following: (1) Real Analysis, (2) Algebra, (3) Complex Variables.
4. Satisfactory performance on a written examination over the minor area if the student has chosen to minor in another subject. (A minor consists of at least 15 hours credit in approved graduate courses in a related field.)
5. Satisfactory performance on an oral examination over the research paper and other topics that are deemed appropriate by the examining committee.

MASTER OF SCIENCE IN EDUCATION (Minor in Mathematics)

1. From 16 to 32 hours of graduate credit in mathematics with at least 8 hours in mathematics at the 500 level. Specific courses are chosen to fit the background and needs of individual students.
2. A research paper.
3. Satisfactory performance on an oral examination over the research paper and course material.

CARBONDALE

AGRICULTURAL INDUSTRIES

The Master of Science degree may be earned with a major in agricultural industries. Within the major field two specializations are offered; one is agricultural economics, and the other is agricultural services.

The agricultural economics specialization requires a minimum of 24 hours in courses in agricultural economics and in the School of Business. A thesis is required. Graduates from this program are sought by industry and government. In this program the student may take work in farm credit,

farm policy, farm management, and agricultural marketing, cooperatives and prices.

The agricultural services specialization requires a minimum of 24 hours in agriculture. The remaining work may be in any field in the University. A thesis is not required, but an approved research paper must be submitted. This course of study is designed primarily to meet the needs of individuals wishing to strengthen their training and provide the basis for performing their work more efficiently. The participants include farm advisers, vocational agriculture teachers, soil conservation personnel, and industrial specialists in agriculturally related businesses.

In both master's specializations the individual's course program is designed to fit his particular goals and objectives.

Students interested in agricultural economics on the doctoral level should consult with the Department of Economics in the School of Business concerning approval of the major in economics with a specialization in agricultural economics.

For further information concerning the program and availability of assistantships, write to the chairman, Department of Agricultural Industries, Southern Illinois University, Carbondale, Illinois 62901.

### ANIMAL INDUSTRIES

The Department of Animal Industries offers major work for the Master of Science degree. A minimum of 24 hours in animal industries courses, including a thesis, is required. Programs may be designed to meet the desires of candidates with emphasis upon animal nutrition, breeding, physiology, or production of beef, dairy, poultry, sheep, or swine. The fields of major emphasis may include courses in other related departments such as chemistry, microbiology, physiology, and zoology. Graduates from this program wishing to work for a Doctor of Philosophy degree have many opportunities for financial assistance at other institutions.

Students majoring in another department may choose a minor in animal industries.

For information concerning a specific program and assistantships available, write to the chairman, Department of Animal Industries, Southern Illinois University, Carbondale, Illinois 62901.

### ANTHROPOLOGY

#### GENERAL REQUIREMENTS

Acceptance for graduate study in anthropology and subsequent continuation in the graduate program are at the discretion of the Department of Anthropology.

Application forms for admission to the Graduate School may be obtained from the Graduate School. When submitting the completed application to the Graduate School, the student must send official transcripts of undergraduate and graduate work; three letters of recommendation addressed to the chairman of the department must also be submitted.

The Graduate Record Examination must be taken by all students. If

they are known, the scores should be reported with the application. If a student has not done so previously, he must take the Graduate Record Examination at the first opportunity after his entry into the department.

No special program of previous work is required, and applicants with academic degrees in fields other than anthropology are accepted. However, in consultation with the Department, a plan for remedying undergraduate deficiencies in anthropology may be arranged.

The department does not require that every student take a master's degree on his way to the doctorate. Whether he does or not is a matter for decision by the student and the department. (For those who do not have the Master of Arts degree in anthropology, formal admission to the doctoral program is dependent on the success of the student in the general examination.)

The program of study for each student will be worked out by the student and his adviser. The normal course of study leads a student to present himself for the general examination after two years of full-time course work. Candidates for the Doctor of Philosophy degree then proceed to a further year of full-time study before presenting themselves for the special examination.

A student's overall progress in his studies is reviewed at the end of each year, or as may be necessary, in order to see that the requirements of the department are being met and that the student's best interests are being served.

#### DEPARTMENTAL REQUIREMENTS

Normally, all graduate students in anthropology working for a higher degree must:

1. Complete the course-hour requirements as established by the Graduate School: completion with a passing grade (*B* average) of a minimum of 48 hours of course work plus the thesis for the master's degree and a minimum of 96 hours plus the dissertation for the doctorate.

2. Complete the equivalent of two academic years (6 quarters) of course work with not less than a *B* average before presenting themselves for their general examination. Previous graduate and/or professional work in anthropology may lead to earlier qualification to take the general examination. The normal course load per quarter is 4 courses or approximately 12 hours.

3. Pass one foreign language examination at least two months before presenting themselves for their general examination. The regulations concerned with foreign language requirements are outlined in this catalog; they may be discussed with the chairman of the department. The student is urged to acquire this language competence at the earliest opportunity so that he is equipped with a useful tool while pursuing his graduate studies.

4. Complete the following required courses: Anthropology 408a,b, and 415.

5. Demonstrate competence in statistics to the satisfaction of the department.

6. Pass with not less than a *B* average the general examination (below)



given in the fall and spring quarters. At the option of the department an oral examination may be required following the written examination.

7. Satisfy all general University and Graduate School requirements as outlined in this catalog.

#### THE GENERAL EXAMINATION

The coverage expected of the student presenting himself for the general examination is stated in syllabi on the topics listed below. The length of the written examination in each part is indicated in parenthesis after the topic.

1. Physical Anthropology (2 hours)
2. Archaeology (3 hours)
3. Linguistics (2 hours)
4. Social Anthropology (3 hours)
5. History of Anthropological Thought (2 hours)
6. Ethnology (3 hours)

#### THE SPECIAL EXAMINATION

The field of study for the special examination is directed towards particular and concentrated study of one or more topics of anthropology, with emphasis on a particular geographical area. The field of study is determined after consultation with the department; study is currently invited or encouraged in the following topics and areas (modifications will be considered as changes in faculty personnel and competencies warrant).

<i>Topics</i>	<i>Areas</i>
Archaeology	North America:
Ethnology	Greater Southwest
Linguistics	Eastern U.S. (East of Rockies)
Physical Anthropology	Arctic and sub-Arctic
Social Anthropology	Middle America:
	Meso-America
	Caribbean and Circum-Caribbean
	South America
	Oceania
	Asia:
	S.E. Asia
	Africa:
	West Africa
	Europe:
	Western Europe
	Mediterranean Basin

The nature of the special field of study, its scope and limits, are determined in consultation with the department and delimited at the student's colloquium.

The normal expectancy is that the student's dissertation topic will be derived from his special field of concentration; however, in consultation with the department, exceptions may be made.

#### MASTER'S DEGREE

Students who wish to take a master's degree will be advanced to candidacy,

if they have met the requirements under departmental requirements (above). Completion of the degree requires the presentation of a satisfactory thesis. A principal adviser on the topic chosen for the thesis will be appointed by the department. A student may complete his thesis before presenting himself for the general examination, before being advanced to candidacy.

#### DOCTOR OF PHILOSOPHY DEGREE

Students who wish to take a Doctor of Philosophy degree and who have met the departmental requirements (above) will consult the department in order to select a special field of study.

This selection will be made in consultation with a special field adviser and committee designated to guide the student's preparation for the Special Examination. The student's plan of special study will be presented at a colloquium for approval by this committee; faculty members not assigned to the special guidance committee may participate in this colloquium.

The student will spend not less than one academic year, or its equivalent, in residence after the successful completion of his general examination before presenting himself for his special examination. However, the student cannot present himself for the special examination sooner than six months after completing his second foreign language requirement.

#### FIELD RESEARCH

A student cannot be recommended for the award of the Doctor of Philosophy degree unless he has had the experience of field research acceptable to the department.

#### THESIS AND DISSERTATION CREDIT

Candidates for the Master of Arts degree must register for 5 hours of thesis credit under Anthropology 599. Candidates for the Doctor of Philosophy degree must register for 36 hours of dissertation credit under Anthropology 600; not more than 18 hours' credit can be earned in any one quarter.

#### DISSERTATION

After successful completion of the special examination, a candidate for the Doctor of Philosophy degree will consult with the department in order to select the topic for his dissertation. The chairman of his dissertation committee will then be appointed and, together with the committee, will advise the student accordingly.

### *APPLIED SCIENCE AND ENGINEERING TECHNOLOGY*

Graduate courses in Applied Science and Engineering Technology are available in the area of industrial design, information theory and processing, nuclear science, materials science, mechanics of fluids, transfer and rate processes, mechanics of solids, photogrammetry, thermodynamics, and electrical science.

Acceptance for a degree program is made by the Dean of the School of Technology and subject to the admission requirements of the Graduate School. An applicant must have received a bachelor's degree with a major or



minor in engineering, physics, chemistry or mathematics or with an emphasis in these fields.

After a student has been admitted to the Graduate School, he should consult the assistant dean for graduate studies of the School of Technology who will designate a staff member to serve as the student's adviser. When the student has chosen a thesis topic and a staff member has consented to direct the project, the thesis director will become the student's adviser and will function together with an advisory committee. An approved program of study may be worked out by the student and his committee, and decisions will be made by the committee in regard to curriculum requirements, research topic, and examinations.

Degree requirements are consistent with the general requirements of the Graduate School with a minimum of 48 hours of graduate credit required.

Teaching and research assistantships are available to well-qualified applicants. Further information about the courses of study or on graduate and research assistantships or fellowships may be obtained from the office of the School of Technology.

### *A R T*

Graduate programs in art lead to the Master of Fine Arts, Master of Arts, and Master of Science degrees. The candidate is expected to select an area of specialization (studio, art history, or art education) around which his program will be planned in consultation with the major professor in that area.

Requirements for the Master of Fine Arts degree in studio (painting, sculpture, printmaking, ceramics, metalsmithing, and weaving) total 60 quarter hours. These hours are distributed as follows: 30 in the major field, 12 in art history, 5 to 9 in thesis or terminal project work, and the remainder in electives. The candidate for the Master of Fine Arts degree must, in addition to the completion of course work, present a terminal project, and participate in an oral examination. Residency requirement for this degree is at least two academic years, or six academic quarters. The University also asserts the right to retain an example of the candidate's creative work, and this selection will be made from the work presented in the graduate exhibition.

Requirements for the Master of Science degree in art education total a minimum of 48 quarter hours. These hours are distributed as follows: 16 in education, 32 to be elected from the areas of art education, art history, and studio, 5 to 9 quarter hours are to be devoted to either thesis work or research work. Such work will result in the writing of a thesis or a research paper. The candidate must participate in an oral examination of the above mentioned thesis or research paper.

Requirements for the Master of Arts degree in art history total 48 quarter hours, and are to be distributed among courses in the history of art, language and humanities or social science electives by the graduate adviser, depending upon undergraduate experience. A combined total of 60 quarter hours in art history on the undergraduate and graduate levels is considered desirable. Graduate students in art history are encouraged to schedule



courses and pursue work in related minor fields. The student must demonstrate a reading knowledge of one foreign language. A comprehensive examination in art history is required in addition to a research thesis.

Courses in the areas of Ancient, Medieval, Renaissance, Asiatic, and Modern art history are offered in the following course formats: Art 482, 483, 571, and 573.

Undergraduate requirement for admission to the Master of Fine Arts program is a degree in art or art education; for admission to the Master of Science in Education, a degree in art education; and for admission to the Master of Arts in art history program, a degree in the humanities. Any exception to these requirements must be with the approval of the faculty in the special degree program, and with the consent of the chairman of the Department of Art.

### ASIAN STUDIES

A graduate minor is offered in Asian Studies which may be made up of the following courses which are listed by departments: Agricultural Industries 417, Anthropology 401, 483, 585, Art 571, 572, Economics 461, Geography 401, 522, Government 457, 458a,b,c, 480, 521, 595, History 449, 455, 510, 590, Philosophy 490. Theses and dissertations on Asian topics may be written by students in any of several majors.

Interested graduate students may write to or consult with the chairman of the Committee on Asian Studies.

### BIOLOGICAL SCIENCES

#### REQUIREMENTS FOR ADMISSION:

1. Bachelor's degree with a major in a natural science department.
2. Admission to the Graduate School.
3. Approval of the chairman of the Biological Sciences Committee or his designated representative (Program Director—E. C. Galbreath, Department of Zoology).

#### REQUIREMENTS FOR THE DEGREE:

Complete 60 hours of graduate courses in the biological sciences. The specific courses required of any student are to be determined by consultation between the student and the program committee, with the following provisions:

1. No more than 35 hours of credit in any one department may be used for the degree.
2. No minor area is required.
3. Have at least 24 hours of credit in 500-level courses. These may not include more than 4 hours for "special problems," 4 hours for seminars, and 4 hours for "readings."
4. Complete at least one 400- or 500-level laboratory course in each department of the biological sciences. (No special credit, such as indicated in 3 above, will satisfy this requirement.)
5. Submit a research paper.

6. Attend, for credit, at least one quarter of seminar in each department of the biological sciences.

#### ADVISEMENT:

Guidance of students shall be by a program committee of four members, one from each of the biological science departments, or other departments at the discretion of the program committee. The program director will serve as an *ex-officio* member.

#### BOTANY

Graduate work may be taken in the Department of Botany as a major or minor leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees and as a part of the program in biological sciences leading to the Master of Science or the Master of Science in Education degree.

Applicants for the advanced degrees must be approved by the department. Queries concerning graduate work in botany should be made to William D. Gray, graduate adviser in botany. To be eligible for graduate work in botany, the student must have an equivalent to an undergraduate minor in botany. Certain deficiencies may be made up concurrently with graduate work.

In accordance with the general requirements of the Graduate School, a candidate for the Master of Arts or Master of Science degree must complete 48 hours of graduate credit and a thesis. The Master of Arts candidate must demonstrate a competence in a foreign language.

The Doctor of Philosophy degree requires, in addition to a dissertation, a reading knowledge of two foreign languages or one foreign language and statistics, if recommended by the candidate's committee.

#### BUSINESS ADMINISTRATION

The Master of Business Administration program has as its basic objective the development of professional managers and executives to serve the needs of business and government and to prepare interested graduates for doctoral study. The program is designed to develop the individual's ability to comprehend internal and external social, political, and economic forces as they affect the decision-making process in the firm. While centering on these objectives, the Master of Business Administration program has been structured with flexibility so as to serve holders of baccalaureate degrees in business administration and those who hold degrees in other disciplines.

#### ORGANIZATION

The Master of Business Administration program is a professional program offered by the graduate faculty of the Departments of Accounting, Management, Marketing, and the Faculty in Finance of the School of Business at Carbondale. These graduate faculties together comprise the Graduate Faculty in Business Administration.

#### ADMISSION TO THE MBA PROGRAM

1. Complete all admission requirements set forth by the Graduate School of Southern Illinois University.



2. Complete the Admission Test for Graduate Study in Business (Princeton Test) and have the results of the Test mailed directly to the director of Graduate Programs in Business Administration. Information regarding this Test is available through:

Admission Test for Graduate Study in Business  
Educational Testing Service  
Box 966  
Princeton, New Jersey 08540

3. Complete an interview with the director of graduate programs in business administration. (This interview may be delayed in individual cases where a special trip to the campus would require travel in excess of one hundred miles to reach the Carbondale campus.)

4. An undergraduate cumulative grade point average of 4.00 is preferred, and no less than a 3.75 grade point average is required with rare exception.

Notification of admission to the Master of Business Administration program is by letter from the director of graduate programs in business administration; and this letter must be presented when planning the first enrollment in the office of the director prior to registration through regular University procedures.

Information on graduate and research assistantships may be obtained from the director, graduate programs in business administration, School of Business, Southern Illinois University, Carbondale, Illinois 62901 or from the Dean of University Graduate Studies and Research, Southern Illinois University, Carbondale, Illinois 62901.

#### DEGREE REQUIREMENTS

A minimum of 48 quarter hours of course work plus a terminal examination (oral, written, or both) are required. Candidates who receive permission to write a thesis must complete a minimum of 44 quarter hours of course work plus an acceptable thesis, for which 8 quarter hours of credit are assigned.

Candidates who lack the necessary prerequisites may be required to complete as much as 80 quarter hours of acceptable course work in addition to other requirements. Those who enter the Master of Business Administration program with deficiencies in any of the core areas of business administration or in mathematics must eliminate the deficiencies in a satisfactory manner prior to starting the program course work. The seven core areas as stipulated by The American Association of Collegiate Schools of Business include: accounting, business law or legal environment of business, economics, finance, management, marketing, and statistics.

The Master of Business Administration program course work to be taken beyond that needed to eliminate deficiencies is determined on an individual basis in conference with the director of graduate programs in business administration. Candidates must satisfy requirements (usually through approved graduate courses) in the following areas: quantitative methods, accounting, economics, behavioral sciences, legal environment of business, finance, marketing, management, communication, and business policy.

The candidate may select a major, not to exceed 15 quarter hours of



credit, from one of the following: accounting, finance, management (personnel or production), marketing or transportation. The candidate may also choose courses in a wide variety of areas of graduate study throughout Southern Illinois University.

### C H E M I S T R Y

Graduate courses of study leading to the Doctor of Philosophy, Master of Arts, Master of Science and Master of Science in Education degrees are offered by the Department of Chemistry. Interested students should consult the chairman of the Department of Chemistry for a complete statement of the requirements for each degree. The following is a summary of these requirements:

#### MASTER OF ARTS DEGREE

In addition to meeting the general requirements of the Graduate School, a candidate for the Master of Arts degree in chemistry is required to:

1. Pass field examinations in 3 of the 5 fields (analytical, inorganic, organic, physical, and biochemistry) of chemistry or complete their equivalent in course work with a grade of *B* within the first nine months of residence.
2. Earn 9 credit hours at the 500 level in one of the five basic fields of chemistry (Chemistry 451a,b,c may be taken in place of two 500 level biochemistry courses) and earn credit in one chemistry course at the 500 level in each of two other fields.
3. Earn 40 hours credit in chemistry courses or 30 hours if an outside minor is elected.
4. Maintain a 3.75 grade point average in formal lecture courses.
5. Attend weekly seminars and earn one hour credit (Chemistry 595) by presentation of a seminar.
6. Earn a minimum of 12 hours in research and thesis (Chemistry 596 and 597).
7. Pass a language examination in German or Russian or present evidence of one year of undergraduate credit with an average grade of *C*.
8. Pass a final oral examination.

#### DOCTOR OF PHILOSOPHY DEGREE

A candidate for the Doctor of Philosophy degree must meet all of the requirements of the Graduate School and all of the requirements for the Master of Arts degree (except for the thesis requirement which may be omitted with departmental consent). In addition the candidate must:

1. Pass field examinations in physical chemistry and three of the other four fields (analytical, inorganic, organic and biochemistry) of chemistry or complete their equivalent in course work with a minimum grade of *B* within the first nine months of residence.
2. Complete a course of study as determined by his graduate committee.
3. Earn one hour credit in seminar (Chemistry 595) beyond the Master of Arts requirement and attend weekly seminars.

4. Earn a minimum of 48 hours in research and dissertation (Chemistry 598 and 600).
5. Pass cumulative examinations in the major field of study.
6. Pass a language examination in German or Russian and demonstrate competence in one additional research tool as required by his Graduate Committee.
7. Maintain a 4.00 grade point average in formal lecture courses.
8. Pass preliminary oral and final oral examinations.

#### MASTER OF SCIENCE IN EDUCATION DEGREE

The Master of Science in Education degree with a major in chemistry is intended for high school chemistry teachers who wish to increase their knowledge of chemistry. In addition to the Graduate School requirements, a candidate for this degree is required to:

1. Pass field examinations in two of the five fields (physical, analytical, inorganic, organic, and biochemistry) of chemistry or complete their equivalent in course work with a minimum grade of *B* within the first nine months of residence.
2. Earn 30 hours credit in chemistry courses and 15 hours credit in education courses.
3. Earn credit in three 500 level chemistry courses in at least two different fields (Chemistry 451a,b,c may be substituted for two 500-level biochemistry courses).
4. Attend weekly seminars and earn one hour credit (Chemistry 595) by presentation of a seminar.
5. Earn 5 credit hours in a special problems course (Chemistry 596).
6. Maintain a grade point average of 3.75 in formal lecture courses.
7. Pass a final oral examination.

#### COMMUNITY DEVELOPMENT

The program is interdisciplinary. A candidate for the Master of Science degree in community development will take a portion of his work in related academic fields. Depending upon his professional plans, it will be possible for him to minor in a field such as agriculture, anthropology, economics, education, geography, government, history, psychology, or sociology. Undergraduate work in more than one of these fields is a desirable background for graduate study in community development. Students with inadequate backgrounds may be required to take certain courses to strengthen their preparation.

The period of study and training is planned to encompass one and one-half to two academic years. Included must be a minimum of 48 hours of graduate credit, plus a one year internship in community development, field consultation, leadership training or applied research. Only a limited number of students can be enrolled in any one year.

The requirements for the Master of Science degree in community development include the following:

1. Courses specifically designed or approved by the Community Development Institute, including a thesis totaling 28 to 32 hours.



2. Work in one or more allied fields, such as anthropology, education, psychology, sociology totaling 16 to 20 hours.

3. One year of part-time noncredit graduate internship. (This may be reduced or waived for exceptional students with one or more years of acceptable professional experience in community development work.)

4. Fulfillment of the requirements of the Graduate School.

### *D E S I G N*

The Department of Design attempts a generalized rather than a specialized design education. Through his undergraduate years the student is led to treat of man and his environmental transactions in terms of whole systems rather than of isolated aspects or component parts. Emphasis is placed on the overall solutions to human problems which may be encompassed through design procedures.

The graduate program of the department continues this broad integrative approach but assumes that, at this level, the student should concentrate his studies in a more closely defined area within which he should work in depth.

It is recognized, however, within the present massive accelerations in the design possibilities of man's control over his environment, that the format of such graduate study should offer the utmost flexibility and capacity for change. The entire graduate program should be viewed as experimental in nature and one whose content and approach will be adjusted according to experience and field developments.

Students with an undergraduate background in various areas of design specialization may qualify for the master's degree program. In addition, on the premise that the association of diverse disciplines participating in the design process may often yield productive and enriching interactions, students with an undergraduate background in fields other than design will be accommodated. Special arrangements should be developed in consultation with the chairman of the department.

A two-year graduate course of study, leading to the Master of Science degree in design, is offered in the areas listed below. The program requires at least 34 hours of graduate study in the Department of Design; at least 18 hours of study outside the department, selected with the adviser; and 9 thesis hours. Specialized areas are: (1) design in education, (2) communications in design, (3) industrial design, (4) environmental planning, and (5) generalized design science, directly oriented toward the design philosophy of R. Buckminster Fuller.

Within the structure of this program, graduates will work in an operational research and workteam organization rather than a formal classroom situation. There will also be the opportunity to participate in seminars and lectures given by distinguished visiting professors to the department and of conducting research under their guidance.

### *E C O N O M I C S*

Graduate courses in economics may be taken as a major or minor leading



to the Master of Arts, Master of Science, and Doctor of Philosophy degrees.

A student may complete requirements for the master's degree through the successful completion of: (1) 48 hours of graduate work, including the master's thesis; or (2) 96 hours of graduate work and successful completion of the preliminary doctoral examination. Each master's degree candidate is required to complete at least 33 hours in economics, including certain required courses.

Graduate students with no undergraduate deficiencies, with no language handicaps, and with no outside demands upon their time may find it possible (by taking the heavy graduate load of 16 hours each quarter) to complete the master's degree in three quarters (roughly nine months). *Most* students who have none of these deficiencies or demands upon their time take three quarters and a summer to complete the master's program. Students with undergraduate deficiencies (determined by the chairman of the Department of Economics), with language difficulties (especially foreign students), or outside demands upon their time should expect to take longer. Such students should plan to be in residence longer than the usual three or four quarters.

The Graduate Record Examination is required of all applicants for admission.

If a student wishes to combine his study of economics with the fields represented in the College of Liberal Arts and Sciences, he should apply for a Master of Arts degree. If he wishes to combine his study of economics with fields represented in the School of Business, the School of Agriculture, or similar schools, he should apply for a Master of Science degree.

A student may complete the requirements for the Doctor of Philosophy degree by taking these steps: (1) completing 48 hours of course work beyond the master's degree, or its equivalent; (2) passing a preliminary examination, usually given upon substantial completion of course work other than thesis; (3) passing the research-tools requirement; (4) writing a satisfactory doctoral dissertation; and (5) passing the final examination.

The Doctor of Philosophy degree candidate may substitute an approved series of mathematics courses or an approved series of statistics courses for one of the two required foreign languages. A final proficiency examination must be successfully passed if the mathematics or statistics sequence is selected.

The preliminary examination will encompass: (1) certain "core" areas of economics; (2) economic theory; and (3) three additional "specialized fields" to be chosen from a list currently including international economics, labor, public finance, comparative systems, political economy, quantitative economics, money and banking, economic history, economic development, and agricultural economics.

After a student has been granted admission to the Graduate School, he should consult the director of graduate studies of the Department of Economics. The Director will refer him to the departmental graduate student adviser, who will act as his adviser until the student has chosen his thesis or dissertation topic and a member of the department has consented to di-

rect the project. The thesis or dissertation director will then become the student's adviser and will function together with an advisory committee.

Information on graduate and research assistantships may be obtained from the director of graduate studies of the Department of Economics. More detailed descriptions of the Master of Arts, Master of Science, and Doctor of Philosophy degree programs are also obtainable from the director.

### EDUCATION

One may pursue a program of study leading to the Doctor of Philosophy degree in education through any one of three functional areas: curriculum and instruction; educational psychology; educational administration and social and philosophical foundations. Specialties are available within the functional areas depending upon the student's interests. For example, in educational psychology he may choose a specialty in human learning, learning resources, special education or counseling and guidance. In all programs, students must satisfy the general requirements of the Graduate School in addition to the special requirements for the Doctor of Philosophy degree in education.

### APPLICATION

An applicant must submit, to the coordinator of the functional area in which he wishes to do his work, his scores from the Graduate Record Examination and the Miller Analogy test, and other pertinent data. Following review by the area's screening committee, the coordinator will inform him of the committee's decision.

### ADVISEMENT

For each student, the coordinator of his functional area appoints a program committee consisting of a chairman, who is in the student's functional area and who is authorized to direct doctoral dissertations, and two other members, at least one of whom must be from outside the student's functional area. His program, planned to include all of his graduate study beyond the master's degree, should be approved at a meeting of the student with his committee. Copies of the approved program are filed with the members of the committee, the student, the area coordinator, and the assistant dean for graduate studies. Appropriate program changes must be approved and filed in the same manner.

### PROGRAM REQUIREMENTS

Full-time residence of one quarter (or two summer sessions of at least eight weeks each) is required for the Master of Science in Education degree.

Each doctoral student in education must successfully complete a prescribed core of 12 credits in psychological foundations of education and social and philosophical foundations of education combined. In a functional area certain basic courses may be required beyond the common core. Specialties within the functional areas are supported by specific courses and other experiences agreed upon by the student and his program committee.



#### PRELIMINARY EXAMINATIONS

When a student has passed the research-tools requirement and completed at least 36 hours beyond a master's degree or its equivalent, he may apply to the College of Education for permission to take the preliminary examination. The preliminary examination will assess the student's competencies in his field of specialization, including the research findings and techniques necessary for scholarship and productive work in his field.

#### DISSERTATION

The dissertation committee consists of a chairman who is authorized to direct doctoral dissertations and at least three others who are authorized to serve on dissertation committees. The committee is appointed by the dean of the Graduate School on the recommendation of the area's coordinator through the assistant dean. At least one member of the committee must be from a functional area other than that of the student and at least one must be from a related area other than professional education.

Satisfactory completion of the dissertation requirement includes the passing of an oral examination covering the dissertation and related areas.

#### *EDUCATIONAL ADMINISTRATION AND SUPERVISION*

Graduate programs in this department lead to the Master of Science in Education degree and the Sixth-Year Specialist's Certificate. The internship in educational administration is offered. Concentrations in support of the Doctor of Philosophy degree in education are offered.

At the master's level, majors are offered in educational administration and in instructional supervision. Graduate courses taken in the department must follow the pattern of prerequisites for admission to courses.

Admission to master's degree work in the department must be approved by the department's admissions committee. The department's admission requirements are available upon request to the chairman. Degree candidates' programs of courses must be approved by the appropriate adviser in the department. Transfer from unclassified status will conform to Graduate School and departmental requirements for such transfer.

The Sixth-Year Specialist's Certificate Program requires 45 hours of graduate study beyond the master's degree. The program includes a practicum, a field study, a minimum requirement in foundations, and a concentration upon an area of specialization. The department's admission requirements and program specifications are available upon request to the chairman. The areas of specialization, the practicum, and the field study are individually planned in terms of the candidate's professional goals. Programs are designed in harmony with standards of accreditation in professional education.

The internship is offered in support of graduate degree programs. Internship requirements and program specifications are available upon request to the chairman.



The department provides advanced courses and doctoral committee members for students pursuing the Doctor of Philosophy degree in education. Admission requirements and program specifications are available upon request.

#### EDUCATIONAL ADMINISTRATION

The program for the Master of Science in Education degree includes the following sequence of courses: Guidance 422b, Educational Administration 500, 460, 424, 535, and 456. Eight hours of additional required courses may be elected from 420, 533, and 534a. A comprehensive oral examination is required.

The Graduate School stresses the advantage of an academic field minor for the educational administration student. The department recommends an academic field minor for all candidates whose undergraduate degrees lack concentration in academic major and minor fields in the junior and senior levels of undergraduate courses. Students with strong undergraduate academic majors and minors will be encouraged to pursue a foundations minor. Students with strong academic and foundations backgrounds may be encouraged to pursue a minor in guidance. Since the master's degree requires at least 24 hours of credit at the 500 level, students should exercise caution in electing 400-level courses.

The required courses are listed above in the sequence which must be followed by majors. Exceptions must be approved by the chairman. Any unclassified student who hopes to be admitted to this department should request advisement from the department's adviser before enrolling in his first course as an unclassified graduate student.

#### INSTRUCTIONAL SUPERVISION

The program for the Master of Science in Education degree includes the following sequence of courses: Guidance 422b, Educational Administration 500, 460, Guidance 515, Educational Administration 424, 456, 556, and 575b. A comprehensive oral examination is required. The regulations for the minor in instructional supervision parallel the regulations for the minor in educational administration.

#### THE SIXTH-YEAR SPECIALIST'S CERTIFICATE

Admission standards for the Sixth-Year Specialist's Certificate Program parallel the admission requirements for the Doctor of Philosophy degree program. All candidates must have the master's degree or its equivalent. Prerequisites to this program include the required courses for the Master of Science in Education degree in educational administration which were omitted in the student's master's degree curriculum.

At least 16 hours in graduate courses will be taken in foundation fields of educational administration, at least 16 hours in the area of administrative specialization, at least 8 hours either in an internship or a practicum, and 5 hours in the field study.

The Sixth-Year Specialist's Certificate Program will be designed by the

candidate and his adviser subject to the approval of the advisory committee of the department. Specific courses and the sequence in which they are to be taken must be approved by the advisory committee.

The department requires a comprehensive written examination as the final step toward the sixth-year program.

### *ELEMENTARY EDUCATION*

Graduate programs in the Department of Elementary Education lead to the Master of Science in Education degree and the specialist's certificate, and contribute to the Doctor of Philosophy degree program in education.

Each graduate major in elementary education and in early childhood education for the Master of Science in Education degree consists of a total of 48 hours. Programs have been developed to serve a variety of specialties in the field of elementary education such as: language arts, reading, social studies, elementary mathematics, elementary science, supervision of elementary subject areas. Courses are also offered which support the program in elementary administration, although students seeking certification or a degree in this field major in the Department of Educational Administration and Supervision.

Each graduate program includes certain required courses, guided electives, and related courses in liberal arts. All programs must be planned with and approved by the graduate advisers in elementary education or in early childhood education. Specific course requirements for a given program may be obtained upon request from the Department of Elementary Education.

Students in early childhood education who have not had psychology or Guidance 412, or Sociology 427, or Health Education 312, or the equivalent of one of these, are required to take four hours in psychology or guidance. Educational Administration 554 or 555 or the equivalent is required.

### *THE MASTER'S DEGREE*

In lieu of a thesis, all students are required to take Guidance 422a or its equivalent and Educational Administration 500.

A total of from 8 to 12 hours should be selected from departments outside of the College of Education.

At least 24 hours must be on the 500 level.

Those who have undergraduate degrees in other fields, regardless of teaching experience, are required to complete, without graduate credit, at least four hours of elementary methods (314 or equivalent) and eight hours of elementary student teaching. The teaching must be done in residence at a university or college approved by the National Council for Accreditation of Teacher Education.

Any student taking graduate courses without first being approved by his adviser risks having work not accepted for the degree.

### *THE SIXTH-YEAR SPECIALIST'S CERTIFICATE*

The Sixth-Year Specialist's Certificate Program requires 45 quarter hours of work. The program is individually planned to meet the student's profes-



sional objectives. Part of the program includes a project which shows the ability to conduct individual investigation.

#### THE DOCTOR'S DEGREE

The Doctor of Philosophy degree in education with a major in curriculum and instruction with emphasis in elementary education requires 96 hours beyond the master's degree. The applicant is approved only after admission to the Curriculum and Instruction functional area. The tools of research requirement of the Graduate School must be met. Required also are completion of the preliminary examination in the field of specialization and the dissertation. The program has certain core requirements but is individually planned to meet the professional needs of the student. Opportunities are available for a strong subject matter minor if one is interested, for instance in a special subject matter field in the elementary school. Write to the chairman of the Department of Elementary Education for detailed requirements.

#### ENGINEERING

The course of study in engineering provides the student with the basic scientific and engineering knowledge necessary to the solution of the complex problems of a modern technological society. The engineer's work revolves around the application of scientific principles from such areas as physics, chemistry, geology and mathematics, and the application of analytical abilities to the solutions of problems involving design, analysis, and prediction.

Course work is available in the areas of systems design and theory, information theory and processing, energy conversion, materials and environment. Individual programs of study are developed for each student by an adviser and an advisory committee.

A student must be admitted to the Graduate School and accepted in the degree program by the School of Technology. When he has been accepted, the student should consult the assistant dean for graduate studies of the School of Technology who will designate a faculty member to serve as the student's adviser.

Teaching and research assistantships are available to qualified students. Additional information may be obtained from the office of the dean of the School of Technology.

#### ENGINEERING TECHNOLOGY

(See Applied Science)

#### ENGLISH

Graduate courses in English may be taken for a major or minor in the Master of Arts program, for a major in English as a Foreign Language program, for the subject-matter major in the Master of Science in Education program leading to the Master of Arts degree, and for the Doctor of Philosophy degree. Inquiries about admission to graduate study in English should be sent to the director of graduate studies in English, Department of English, Southern Illinois University, Carbondale, Illinois 62901.



For the Master of Arts degree in English, the student must satisfy the following requirements:

1. Complete at least 48 hours of satisfactory graduate work.
2. Take English 500 in the first term it is available to him.
3. Take a course in the English Language or in linguistics.
4. Take English 585 (required only of teaching assistants).
5. Present evidence of competence in one foreign language, normally either French or German.
6. Submit to the director a clean copy of that research paper which best represents his abilities and accomplishments.
7. Pass the Master's Comprehensive Examination.

For the Doctor of Philosophy degree in English, the student must satisfy the following requirements:

1. Complete at least 96 hours of course work, including work taken for the Master of Arts degree.
2. Present evidence of competence in the English language and linguistics, normally by completing the appropriate courses with a grade not lower than *B*.
3. Take at least one course in each of the following fields: English literature to 1500, 1500 to 1660, 1660 to 1800, 1790 to 1900, 1885 to date, and American literature.
4. Present evidence of competence in two foreign languages, normally French and German.
5. Pass preliminary examinations in English and American literature.
6. Submit a satisfactory dissertation, credit for which may not exceed 48 hours.
7. Pass the final oral examination.

For the Master of Arts degree in English as a foreign language (an inter-departmental degree) the student must satisfy the following requirements:

1. Take 28 hours of theoretical linguistics: English 400, 405a,b, 504, 505; Anthropology 401, 413.
2. Take 13 hours of applied linguistics: English 588a,b,c, 569.
3. Take 7 hours of related electives.
4. Pass a written comprehensive examination.
5. Submit to the chairman of the EFL program a clean copy of that research paper which best represents his abilities and accomplishments.
6. Maintain a *B* average for the first 26 hours of graduate course work.

## FOREIGN LANGUAGES

For the Master of Arts and Master of Science in Education degrees, majors and minors are offered in French, German, and Spanish. A minor may be taken in Russian.

For the Master of Science in Education degree, Romance Philology 410 is required for students in French and Spanish, and for those in German, German 413 is required. For the Master of Arts degree in French and Spanish, Romance Philology 410 and three hours of either French or Span-

ish 515 are required. All romance philology courses may be counted toward either French or Spanish specializations. For the Master of Arts in German, German 413 and 533 are required.

Normally the bachelor's degree and a minimum of 27 hours in courses on the junior-senior level, or the equivalent, constitute the prerequisite for registration in graduate courses. However, students who do not meet this requirement may register for specific graduate courses with the consent of the instructor and the authorization of either the chairman of the department or the chairman of the graduate committee of the department.

### FORESTRY

The Department of Forestry offers advanced courses for the Master of Science degree. Collateral course work in other departments of the University is recommended but varies with a student's specific program. The major forestry disciplines emphasized are: forest recreation and park management; forest resource economics; wood science and forest products; silviculture; forest biometrics; and forest watershed management.

In addition, cooperative curricula are available which permit graduate forestry students to enroll in Doctor of Philosophy programs with other departments. Syllabi are arranged on an individual student basis, emphasize an interdisciplinary approach, and orientation within the biological, physical, or social sciences.

All candidates for the Master of Science degree will be expected to complete original research in some field related to forestry. This research shall lead to the completion of a thesis which will be governed by the rules of the Graduate School. Competence in a foreign language is desirable but not required. The same number of minimum hours required by the Graduate School are acceptable to the Department of Forestry. Three letters of recommendation are requested in support of each candidate before he is accepted for graduate study. Additional details can be obtained by writing the Department of Forestry.

### GEOGRAPHY

The Department of Geography offers programs leading to the Master of Arts, Master of Science, Master of Science in Education, and Doctor of Philosophy degrees.

The department offers particularly strong programs at both the master's and doctor's levels in several fields. Most important of these programs at present are in urban geography, regional economic development, planning, industrial and transport geography; cultural geography; climatology; land and water resources; and the geography of Anglo-America and Latin America.

### MASTER'S DEGREE

Although there are several programs at the master's level, the basic objectives in each of these programs are the same. The student must develop and demonstrate: (1) professional perspective and broad competence in the three major subject areas of geography—physical, cultural, and eco-



conomic geography; (2) competence in a specialization related to the student's stated professional objectives (doctoral study or terminal master's work preparatory to teaching, planning, etc.); (3) habits of critical analysis and intellectual dialogue; and (4) capability to identify a research question and pursue it to satisfactory conclusion in the form of a thesis or its equivalent.

All entering students will be assigned a program adviser during their first quarter in residence. Normally, the entering student enrolls in Geography 505, and at the completion of this course selects an adviser with whom a course program will be designed to remedy any deficiencies and to meet his stated professional objectives.

Two departmental requirements are common to all master's programs—the comprehensive examination, and the thesis or its equivalent. The comprehensive examination consists of four written papers designed to demonstrate the student's professional perspective and broad competence and can be taken as early as the end of the first quarter but no later than the end of the third quarter a student is in residence. Satisfactory completion of the comprehensive examination is prerequisite to beginning a Thesis or its equivalent. A satisfactory oral defense of the thesis is a part of the thesis requirement.

For either the Master of Arts or Master of Science in Education degree, a student must give evidence of a reading competence in one modern foreign language, preferably French, German, or Russian. This can be accomplished either by successful completion of a year of college-level language courses or by passing a reading examination. For the Master of Science degree, evidence of competence in quantitative techniques is required instead of the language.

Candidates for the Master of Arts or Master of Science degree may or may not present a minor. Candidates for the Master of Science in Education degree must work out a program acceptable to the College of Education. For any graduate degree, students without a minor may receive credit toward their degrees in geography for courses in other departments approved by their advisers.

Within the regular geography program, interested students are able to take advantage of a specialty in planning developed in cooperation with the departments of government, economics, sociology, and the Community Development Institute. An internship plan allows these students to spend a summer as employees of local governmental planning agencies.

The normal load is 12 hours per quarter. Although the 48 hours required for graduation can be accomplished in four quarters, the department suggests that students think of six quarters as the time normally required to complete the master's degree. This longer time allows the student to complete a richer program and to spend adequate time in writing the thesis or its equivalent.

#### DOCTOR OF PHILOSOPHY DEGREE

The objective of the Doctor of Philosophy degree program in geography is to "develop scholars who can effectively carry on and present original research within the field of geography." To achieve this objective a general



program has been designed to permit individual students maximum flexibility and penetration of geographic research in depth.

In addition to the general requirements of the Graduate School, the department has five prerequisites for admission to the departmental program:

1. A set of personal and professional data forms provided by the department must be completed and returned to the departmental chairman.

2. A statement of individual immediate and long range professional goals must be prepared by the student and submitted to the departmental chairman along with the completed personal and professional data forms.

3. Three confidential letters of reference must be sent to the department chairman from faculty of schools the student has previously attended.

4. Evidence of attainment of a master's degree or its equivalent must be provided in the form of appropriate official transcripts.

5. A demonstration of competence in the field of geography is required in the form of a diagnostic examination given prior to or at the end of the first quarter in residence at the University. Deficiencies indicated by the examination are to be remedied as prescribed by the staff.

The doctoral program is composed of four chronological stages culminating in the final acceptance of the dissertation. The first stage is a program of courses worked out between the student and his advisory committee to take advantage of the student's previous professional preparation, interests, and abilities, and to remedy any weaknesses in his background. Courses comprising this stage will be built from the following major elements implemented by specific courses approved by the student's advisory committee: (a) a core of courses in geographic methodology, (b) a series of lecture courses, seminars, and independent research courses in his field of specialization, course work in cognate fields to supplement his specialized training, and (c) training in the skills of scholarly research—language, statistics, and cartography. Specific courses will be recommended only in those areas where a student lacks a demonstrated competency. However, students should understand that the completion of a minimum of 48 hours of course work need not necessarily suffice for the completion of requirements. The true measure is professional competence as judged by the advisory committee.

The second stage is the qualifying examination which is taken at the completion of formal course requirements and upon the recommendation of the student's advisory committee. This is followed by admission to candidacy upon satisfactory performance on the qualifying examination. Finally, there is the dissertation which must be approved by the student's advisory committee and orally defended before an examining committee appointed by the dean of the Graduate School.

## *G E O L O G Y*

The Department of Geology offers programs leading to the Master of Arts and Master of Science degrees. Appropriate programs are given for a minor related to anthropology, geography, zoology, and soils. Preparation

for teaching earth science at the high school level is undertaken in cooperation with the College of Education and other science departments.

The department cooperates with an all-university program to prepare students for work in the areas of conservation, recreation and outdoor education, and natural science; a major or minor in geology directed toward this end may be obtained.

The aim of the master's program is to give the student competence in the basic fields of geology stressing field mapping, crystallography, petrology, paleontology, stratigraphy, geomorphology, and mineral deposits, including petroleum. Specialization is encouraged only after this proficiency is attained.

The master's candidate must give evidence of competence in the basic sciences through formal courses or proficiency examinations. There must be a minimum of 48 hours of graduate credit. Reading knowledge of a foreign language is required at least to the equivalent of one year of college-level study.

Before undertaking the thesis a general examination, written or oral, is given; the master's oral examination is then concerned primarily with defense of the thesis.

Southern Illinois and adjacent areas offer a wide range of geological conditions ideal for class and individual study and research. Staff members are engaged in continuing study of the region and encourage participation by qualified students. The Illinois Geological Survey actively supports the work in this state.

### *G O V E R N M E N T*

Graduate courses in government may be taken as a major or minor leading to the Master of Arts degree, as a part of a social studies major toward the Master of Science in Education degree, and as a major leading toward the Doctor of Philosophy degree.

The subject-matter fields in which students concentrate their study are:

1. American National Government
2. State and Local Government
3. Public Law
4. Public Administration
5. Political Dynamics and Behavior
6. Comparative Government
7. International Affairs
8. Political Theory

All candidates for graduate degrees will be expected to select one of these areas of concentration as their major field and to demonstrate special competence both in that field and in a limited number of other areas of concentration.

Departmental processing of applications for acceptance as a graduate student in government is the joint responsibility for the department's director of graduate studies and its graduate admissions committee.

The director of graduate studies serves as adviser for all graduate students until such time as an advisory committee is named for the individual student. This should be done by the end of the second quarter in residence.



## THE MASTER OF ARTS DEGREE

Requirements for admission imposed by the department are in addition to those of the Graduate School. The department will ordinarily consider accepting as potential candidates for the master's degree only persons who have graduated from an accredited four year college or university with a 3.70 grade point average and who have completed a minimum of 21 quarter or 14 semester hours in the field of government or political science. Persons who do not meet these minimal requirements or their equivalent can be considered for acceptance only on a petition to the department's graduate admissions committee which, if granted, will indicate the deficiencies to be made up by work that will not be counted toward the Master of Arts degree.

A minimum of 48 quarter hours of credit, no more than 9 of which may be for the thesis, constitutes the basic course requirements for the Master of Arts degree. At least 24 of these hours must be in courses at the 500 level. The course work must be so planned as to include at least 9 hours of work in each of two areas other than the one in which the thesis is to be written.

A student who completes only the minimum of 48 hours of course work may devote no more than 9 of those hours to courses outside the department unless the work is in a cognate field which has been approved as a replacement for one of the areas of concentration within the department. In the latter event, as many as 16 hours in outside fields may be counted within the 48 hour minimum.

Each candidate for a Master of Arts degree must include in his studies the departmental course in the scope and method of political science (Government 499).

A student must maintain an over-all 4.00 grade point average in order to be eligible for the Master of Arts degree, and no more than 9 hours of work with a grade of *C* may be counted toward the Master of Arts. A student whose work at any time falls significantly below this average may be dropped from the graduate program after consultation between his adviser and the director of graduate studies.

Proficiency in one modern foreign language is one of the University's requirements for the Master of Arts degree. Facility with a foreign language can, at the option of the department, be shown either by course work or by passing successfully the proficiency examination given by the Department of Foreign Languages, and the results must be entered in the Graduate School at least three months before graduation.

A thesis of the usual form and scope is required for the Master of Arts degree by the Department of Government. This requirement may be satisfied by an authorized internship report. A research paper in lieu of a thesis can be accepted only with the prior approval of the department's graduate admissions committee and the consent of the dean of the Graduate School. Additional course work will not be accepted in lieu of a thesis.

The final oral examination will cover the thesis and the major area in which it was written, and it may also test the candidate's competence in his minor area as well as his general familiarity with the fundamentals of government.



## DOCTOR OF PHILOSOPHY DEGREE

Requirements for this degree imposed by the department are in addition to those of the Graduate School. The department will ordinarily consider accepting as potential candidates for the Doctor of Philosophy degree only persons who have successfully completed the work for a Master of Arts degree or its equivalent in government or political science, at an accredited college or university, with a 4.50 grade point average in all courses that have been taken for graduate credit. Applicants whose previous graduate work was not primarily in government or whose academic record is not up to the standard indicated may be considered for admission only on a petition to the department's graduate admissions committee which, if granted, will be accompanied by a statement specifying the course work that must be completed without credit toward the Doctor of Philosophy degree before the applicant has unconditional standing.

An application for admission is made to the Graduate School on the basis of previous academic work. The applicant should also submit to the director of graduate studies a vita sheet giving an indication of the student's academic and practical experience to date and a broad statement of his purpose in undertaking studies for the doctorate. The student should, further, ask at least three of his former teachers to send letters to the director evaluating the applicant's ability to pursue advanced graduate studies.

A minimum of 48 quarter hours of credit, exclusive of work on the dissertation, beyond the Master of Arts degree constitutes the basic course requirements for the Doctor of Philosophy degree. The course work must be so divided between the various areas of study to supplement work previously taken by the candidate, in a measure sufficient to prepare him for the preliminary examinations. At least 15 of the 48 credit hours must be in courses at the 500 level.

The plan of studies approved for the student may include appropriate work outside the Department of Government. A student is to select his minor only with the approval of his doctoral advisory committee.

Competence in two foreign languages, or one language and statistics, is required of each candidate for the Doctor of Philosophy degree. The choice of languages is to be approved by the department and the Graduate School. The language requirement must be satisfied before the preliminary examination for the doctorate is taken.

The substitution of statistics for one language is also subject to department approval and, if granted, will require completion with a minimum grade of *B* of one of the following statistics course sequences or an approved equivalent: Guidance 422b or Psychology 421, 522a,b; or Mathematics 410a,b,c,d; or 480a,b,c.

A preliminary examination is given only when the applicant has completed his course work and has met the language requirements. It consists of both oral and written parts, completed in a two-week period.

A dissertation showing high attainment in independent, original scholarship and creative effort must be completed in meeting the final requirements of the degree of Doctor of Philosophy. The final examination is oral and devoted primarily to a defense of the dissertation.

## GUIDANCE AND EDUCATIONAL PSYCHOLOGY

The Department of Guidance and Educational Psychology offers programs in several areas at several levels. The Master of Science in Education degree, Sixth-Year Specialist's Certificate Program, and Doctor of Philosophy degree in education are awarded after completing an appropriate series of learning experiences in an approved curriculum.

### ADMISSION AND ADVISEMENT

Admission to the programs just described is from admission to the Graduate School. Persons seeking admission should make application through forms which may be obtained from the department. Completed forms together with test scores constitutes an admission dossier which is reviewed by a standing committee. Admission is generally granted six weeks before the beginning of a quarter and applicants should file materials well in advance of a term in which they desire admission. Advisement for all programs of the department is decentralized and students are assigned to members of the faculty at the time of admission.

### MASTER'S DEGREE IN GUIDANCE

The master's program offers two 48 hour curricula in elementary and secondary guidance. Both curricula are designed for persons seeking Illinois teacher certification and presume either prior completion of Illinois teacher certification curricula or concurrent completion.

### MASTER'S DEGREE IN EDUCATIONAL PSYCHOLOGY

A 48-hour curriculum in educational psychology is available for persons seeking preparation in the analysis of learning and child study. It is not related to teacher certification but is intended to provide a basis for advanced work in educational psychology at the doctoral level.

### SIXTH-YEAR SPECIALIST'S CERTIFICATE

In elementary or secondary guidance the Sixth-Year Specialist's Certificate is awarded to persons of superior academic performance. Enrollment in this program is also limited. It should not be confused with the Doctor of Philosophy curriculum which will be discussed shortly.

### DOCTOR OF PHILOSOPHY

Graduate studies at the doctoral level are not available in all areas. Organization of graduate programs in the College of Education shifts from a departmental pattern to an area pattern beyond the Sixth-Year Specialist's Certificate. Students wishing to apply for studies at the doctoral level should write to the area coordinator for educational psychology. The Doctor of Philosophy degree in educational psychology provides a curriculum vehicle for four departments, and students interested in elementary guidance, secondary guidance, and educational psychology may pursue their interests to varying degrees within the area program. Inquiries should be addressed to



the area coordinator rather than to the Department of Guidance and Educational Psychology.

### HEALTH EDUCATION

Master of Science in Education degree programs are offered in health education. The candidate may select from three areas: school health education, community health education, and safety education. In school health and safety education, two programs may be followed: (1) a minimum of 24 hours in health education, a minimum of 16 hours in a minor field, and 8 hours, with departmental approval, from other graduate courses in the University; or (2) a maximum of 40 hours in health education and 8 hours from offerings in the field of education having departmental approval.

The program in community health education extends over four quarters of study with 60 quarter hours required for the degree. Required courses for the degree in community health are 488, 489, 500, 511, 533-12, 590, Food and Nutrition 404, Radio-Television 367, and Journalism 393.

Qualified candidates wishing to pursue a program leading to the Doctor of Philosophy degree in education with specialization in health education will receive individual guidance from the department.

### HIGHER EDUCATION

The Department of Higher Education offers programs leading to the Master of Science in Education degree and courses contributing to the Doctor of Philosophy degree in education.

Specialties within the Doctor of Philosophy degree program include: academic administration, college student personnel administration, business affairs administration, institutional and coordinating agency studies, selected or inter-disciplinary research. For further details, including information on the work and financial assistance available through administrative internships for doctoral students, write the department chairman.

The two-year program in college student personnel work leading to a Master of Science in Education degree (72 quarter hours) combines formal studies and field experiences. There are (1) courses in the organization, operation, and theory of college student personnel services; (2) courses in other aspects of higher education, including its history, organization, finance, curriculum, theory, and issues; (3) courses in supporting areas of the behavioral sciences and research, including personality theory, learning theory, psychopathology, group dynamics, counseling theory, and psychological measurement; (4) courses in elective areas of education or liberal arts and sciences, to strengthen professional needs; and (5) the equivalent of a full academic year of student personnel work with both men and women.

Admission to the college student personnel program is by a selection committee composed of representatives of the Department of Higher Education and the Student Affairs Division. Qualifications include a bachelor's degree, an undergraduate grade point average acceptable for admission to the Graduate School and the selection committee, as well as personal qualities appropriate for living with and advising students or for effective work in university offices serving students.



Financial assistance in the form of resident hall fellowships entitling a student to room, board, and remission of tuition, as well as a limited number of graduate assistantships are available. Highly qualified students enrolled in any program in the department are eligible for fellowships granted through the Graduate School. For further details write the chairman, Department of Higher Education.

### *HISTORY*

History may be chosen as a major for the Master of Arts degree and as part of a social studies major for the Master of Science in Education degree. In either case a minimum of 32 quarter hours (of the 48 hours required for the degree) of appropriate history credit is required. At least 16 of the required 32 hours must be taken in courses on the 500 level, the remainder on the 400 level. Candidates for the Master of Arts degree must pass a reading examination given by the Department of Foreign Languages in a modern foreign language. They will present either a thesis (5 to 9 quarter hours) or two substantial research papers prepared in seminars and approved for this purpose by the respective seminar masters. They must also pass an oral examination in history after the thesis has been accepted. The thesis is optional for the Master of Science in Education degree candidates. All candidates for either degree should consult the graduate adviser of the department before enrolling for courses. When a student has been assigned to a thesis adviser, that person will help plan the remainder of his program. The department believes that programs should be planned in the light of the student's previous studies, and it discourages undue specialization.

### *HOME ECONOMICS*

The Master of Science and Master of Science in Education degrees with a major in home economics are available with specializations in:

1. Clothing and Textiles (including interior design)
2. Food and Nutrition
3. Home and Family
4. Home Economics Education

Work toward the Doctor of Philosophy degree is available in home economics. The Letitia Walsh award-loan of \$5,000 is available for Doctor of Philosophy candidates in home economics.

### *PREREQUISITES FOR ADMISSION TO GRADUATE STUDY*

1. Admission to the Graduate School.
2. Completion of a curriculum in home economics or in a field related to the area of specialization, such as biological, physical, and social sciences, art, business, and/or communications. When necessary, deficiencies may be made up concurrently.
3. Satisfactory scores on the Graduate Record Examination.
4. An undergraduate grade point average equivalent to 3.70 or above. Conditional admission may be granted where the grade point average is above 3.40 but below 3.70.
5. A scholastic record that indicates ability to pursue advanced study in the chosen major field.

6. Demonstrated ability to write effectively as indicated by scores in English composition. In the case of foreign students an official statement showing sufficient proficiency in English is required.

7. The student attains full graduate standing in home economics when he has met the above requirements and has made satisfactory scores on the Ohio State Psychological Examination.

#### REQUIREMENTS FOR THE MASTER OF SCIENCE IN HOME ECONOMICS

In addition to the general requirements of the Graduate School, requirements for the master's degree in home economics are:

1. Thirty to thirty-two quarter hours in the field of specialization plus 16–18 quarter hours in approved related fields with a minimum total of 48 quarter hours, 24 of which must be in courses at the 500 level.

2. The required courses for all master's degrees in home economics are: Home Economics Education 451–1 or equivalent for transfer graduate students, Guidance 422b–4 or equivalent, and Educational Administration 500–4. A thesis or research paper is required.

Additional requirements may be specified for each major. It is expected that the individual program will be planned by the student and the adviser to supplement the student's previous training and experience, with due consideration given to the student's objectives.

#### REQUIREMENTS FOR THE MASTER OF SCIENCE IN EDUCATION

Thirty-two hours in the field of home economics are required for a major, with a 16-hour minor in education. The student's graduate committee may require a program including additional credit. Required courses are Guidance 422b or equivalent, Home Economics Education 415, 500, 505, 506, 599 (Thesis). As an alternative to writing a thesis, specific courses on the graduate level as recommended by the student's advisory committee and approved by the dean of the Graduate School may be taken; each student who does not write a thesis must submit to the Graduate School, for its permanent records, a copy of a research paper as evidence of his knowledge of formal research techniques.

#### PREREQUISITES FOR ADMISSION TO ADVANCED GRADUATE STUDY

1. Prerequisites 1, 2, 3, 5, and 6 as listed above under Admission.

2. Recommendations from three or four former teachers or supervisors whose names the student has submitted.

3. Admission is granted to a student whose grade point average is 4.25 or above and whose scholastic record in the chosen major field indicates ability to pursue advanced study.

#### REQUIREMENTS FOR THE DOCTOR OF PHILOSOPHY

In addition to the general requirements of the Graduate School, requirements for the Doctor of Philosophy degree in Home Economics are:

1. A minimum of 144 quarter hours, including the dissertation, beyond the Bachelor of Science degree is required; this may include all or part of the 48 hours earned while working for the master's degree. A minimum of 48 hours is required from related fields outside of home economics.



2. Qualifying interview—the student shall request a meeting of the temporary advisory committee during the first or second quarter in residence, depending on whether he is carrying a full or part-time program.

3. Competence in at least one foreign language and in statistics. The candidate is expected to satisfy these requirements before taking the examination preliminary to starting dissertation research.

4. The preliminary (comprehensive) examinations—a candidate for the Doctor of Philosophy degree shall make application for the oral and written examinations after he has completed the above requirements and approximately two-thirds of the advanced course work.

5. Admission to candidacy—after successfully passing the preliminary examinations and receiving provisional approval of the tentative plans for the dissertation, the student will be admitted to candidacy for the Doctor of Philosophy degree. This should be done before the third quarter preceding the anticipated date of graduation, and no student will be approved to graduate unless six months have elapsed between admission to candidacy and graduation.

6. Satisfactory completion of a final examination at which the student will defend the dissertation.

The time between the comprehensive and final examination for any student cannot exceed five years.

### INSTRUCTIONAL MATERIALS

Graduate courses in instructional materials may be taken for a major toward the Master of Science in Education degree, for a minor in library service, for a minor in audio-visual education toward the Master of Science in Education degree, or in support of a learning resources specialty in the doctoral area of educational psychology.

The graduate major in Instructional Materials, toward a Master of Science in Education degree, involves professional training in both audio-visual education and school library service. It meets the state and national certification standards for full-time school librarians and the standards recommended by the Department of Audio-Visual Instruction of the National Education Association. In Illinois every school librarian is also required to have a teaching certificate.

Fifty-two hours are required for the major. No minor is required. At least 26 hours must be in courses numbered 500 or above. The following courses are required: 403, 405, 406, 407, 417, 420, 445, 510, 514, 546 and 12 hours from 440, 448, 450, 457, 458, 470, 530, 547, 548, 549, 554, 560, 576, and 599.

The minor in school library service is offered for students taking a major in another area. This minor, consisting of a minimum of 15 hours, is intended primarily for teachers who wish to obtain an appreciation of literature for children and adolescents. It is not intended for the preparation of professional school librarians. The following courses are required: 405, 406, 514, and at least 3 hours from 420, 510, 530, and 576.

The minor in audio-visual education is also offered for students taking a major in another area. This minor is intended primarily to prepare audio-



visual directors and coordinators. It meets the certification recommendations of the state and national audio-visual organizations. The following courses are required: 417, 448, 546 and at least 3 hours from 440, 445, 457, 458, 547, 549, 560, and 576.

The Doctor of Philosophy degree concentration in learning resources comes under the functional area of educational psychology. The procedures and qualifications are those established by the educational psychology functional area and information can be obtained by writing to the coordinator of the educational psychology functional area, College of Education.

The doctoral concentration in learning resources is designed for those individuals who wish to become directors of instructional materials in the large city, college, university, or industry where the scope of the program will require, under the director, separate specialists in both the audio-visual and library fields. The graduate of this program should be able to plan long range activities for his unit, work with curriculum committees, with administrators, and with specialists such as psychologists, research directors, and directors of reading centers.

For further information concerning major and minor programs, work experiences, job opportunities, or other related matters, consult the chairman, Department of Instructional Materials.

### *INTER - AMERICAN STUDIES*

Course work in the inter-American studies field is offered by the Departments of Anthropology, Economics, Foreign Languages, Geography, Government, and History.

Prerequisites for the Master of Arts degree include a command of the Spanish language adequate to meet the student's needs for research and communication within the area of his program. The director of the Latin American Institute and the supervisory committee will determine the student's linguistic competence on registration and, where necessary, specify what the student must do to improve his proficiency in Spanish. Whenever the student's program involves the need for Portuguese or French, he will also need to demonstrate or attain satisfactory proficiency in that language. In addition, a satisfactory basic preparation in inter-American studies is required.

#### REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

1. The completion of a major of at least 30 hours of courses acceptable for graduate credit in one of the above listed departments.
2. The completion of a minimum of 18 hours of related studies approved by the student's supervisory committee which will meet the requirement for a minor in the Latin American Institute. A maximum of three areas is permitted in the minor field.
3. The completion of a satisfactory thesis on a Latin American topic in the major area for which 5 to 9 hours of credit are given.

A minor in inter-American studies for those students with a major in a department outside of the institute will consist of a minimum of 18

hours to be taken in two of the participating departments. Specific course programs will be worked out by the director of the institute in consultation with the chairmen of the departments involved.

In every case the student's final program must be approved by the graduate supervisory committee, acting under policies established by the Latin American Institute and the Graduate School.

### JOURNALISM

Courses in journalism leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees are offered by the Department of Journalism. Candidates for a master's degree must complete 48 hours of graduate work (half in professional journalism courses, the remainder in courses in the liberal arts) including a thesis demonstrating a capacity for investigation and independent thought. Candidates for the Master of Arts degree must demonstrate competence in a foreign language.

Each doctoral program is designed to fit the needs of the individual while satisfying requirements of the Department of Journalism and the Graduate School. Among minimum requirements are 96 hours of graduate-level courses beyond the bachelor's degree, to include a minimum of 36 hours of advanced journalism courses and 24 hours each in two other approved related fields. Doctoral students will be examined over their three academic areas of concentration, write a dissertation, and meet all requirements of the Graduate School.

### MATHEMATICS AND MATHEMATICAL SCIENCES

Graduate work in mathematics and mathematical sciences is offered leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Major or minor work for the Master of Science in Education degree and minor work for graduate degrees in other fields are also offered. In addition to the general rules, regulations, and requirements of the Graduate School, the following specific requirements pertain to the various degrees available with a major in mathematics and mathematical sciences. The department should be consulted for complete details.

#### MASTER OF ARTS DEGREE

1. Course work must include: Mathematics 433, 501a,b, 520a,b, 530a, 555a,b. Graduate credit must total at least 48 hours.
2. Successful completion of the foreign language examination for the Doctor of Philosophy degree administered by the Department of Foreign Languages in one of the following: French, German, or Russian.
3. A thesis carrying 5 to 9 hours credit in Mathematics 599.
4. Satisfactory performance on a written examination (usually given in the spring quarter) in three of the following areas, including (1) and (2) in any case: (1) Real Analysis (452a,b,c, 501a,b,c); (2) Algebra (421a,b, 520a,b,c); (3) Topology (433, 530a,b); (4) Probability and Statistics (480 a,b,c or 483a,b,c); (5) Complex Variables (555a,b,c).
5. Satisfactory performance in an oral examination over the thesis and such other material as the examining committee may deem appropriate.



MASTER OF SCIENCE DEGREE

1. Course work must include the following: (1) 421a,b, and 433, (2) at least 3 hours from 455, 555a,b,c, (3) either 501a,b, or 555a,b, (4) either 520a,b or 530a,b. Graduate credit in mathematics must total at least 48 hours.

2. Demonstrated reading competence in mathematics in one of the following languages: French, German, or Russian; by an examination as for the Master of Arts as described above or by an examination administered by the Department of Mathematics.

3. A research paper carrying 3 hours credit in Mathematics 595.

4. Satisfactory performance on a written examination (usually given in the spring quarter) in three areas as follows: (1) either real analysis or complex variables as described under 4 for the Master of Arts; (2) either algebra or topology as described under 4 for the Master of Arts; (3) one other of the five specialties described under 4 for the Master of Arts or the material covered in a two- or three-quarter 500-level sequence in mathematics not listed under 4 for the Master of Arts.

5. Satisfactory performance in an oral examination over the research paper and such other material as the examining committee may deem appropriate.

MASTER OF SCIENCE IN EDUCATION DEGREE

This degree is given in cooperation with the Department of Secondary Education, with the Department of Mathematics administering the major in subject matter.

1. A minimum of 32 hours of mathematics is required, including Mathematics 547 and 592. Courses must be taken that will provide competence in algebra, analysis, geometry, and probability. Specific courses are chosen to fit the background and needs of individual students.

2. A research paper in mathematics education is required and may be written in connection with course 592.

3. A comprehensive written examination over mathematics and education must be passed satisfactorily.

DOCTOR OF PHILOSOPHY DEGREE

1. A master's degree in mathematics indicating performance acceptable to the department at the level of graduate work described under 4 for the Master of Arts degree or satisfactory performance on a qualifying examination comparable to that degree.

2. Demonstrated reading competence in mathematics in two of the languages: French, German, or Russian. This will ordinarily be done as under item 2 for the Master of Arts degree.

3. At least 48 hours of course work beyond that required for the master's degree; at least 24 hours of the 48 must be at the 500 level.

4. Satisfactory performance on a preliminary examination (generally consisting of both written and oral parts) over three of the four fields: (1) algebra; (2) analysis; (3) topology and geometry; and (4) statistics and applied mathematics. Normally, algebra and analysis must be included and



one of the others may (with the approval of the Department of Mathematics) be replaced by a minor outside mathematics.

5. A dissertation (representing at least 36 hours of credit in Mathematics 600) demonstrating the candidate's capacity for original and independent research in an area of concentration chosen from the four listed in item 4 above. The candidate will also be examined orally on his dissertation.

### *M I C R O B I O L O G Y*

Graduate courses in microbiology may be taken as a major or minor leading to the Master of Arts and Master of Science degrees, or as a part of a biological sciences program leading to the Master of Arts, Master of Science, and Master of Science in Education degrees.

The Doctor of Philosophy degree in microbiology will be awarded to a candidate in recognition of achievement in independent research and in advanced studies. His original contribution to knowledge, evidenced in the dissertation, together with a superior comprehensive scholarship record and satisfactory completion of prescribed examinations are the criteria for the degree. Emphasis will be placed on his critical evaluation of, and familiarity with, the existent developments in microbiology and related areas of study.

The Department of Microbiology and the Biological Research Laboratory offer facilities for research in microbial genetics, cytology, radiation biology, physiology and biochemistry of microorganisms, medical microbiology, immunology, and virology. In addition to the library facilities, reprint collections covering many topics in microbiology are available for student use.

To be eligible for the Doctor of Philosophy degree, the student must satisfy the following requirements: (1) He must complete at least 144 hours of graduate work and research. Credit for research may not exceed 60 of the 144 hours; (2) He must demonstrate his proficiency in statistics and his ability to read, with reasonable facility, scientific literature in two modern languages; (3) He must pass the qualifying examination and a final oral examination; and (4) He must submit an approved dissertation based on his research.

A minor may be elected as part of a doctoral program in microbiology, subject to approval of the department, from courses in any program which constitute a major for the master's degree. A minor in microbiology for the doctorate in another biological science consists of general microbiology and 20 hours selected from courses offered and approved by the department.

### *M U S I C*

The master's degree in music consists normally of a total of 48 hours of work in an area of specialty outlined below. Further work may be required in certain cases. Candidates for the Master of Music, Master of Music Education degree or the Doctor of Philosophy degree in education who wish to choose applied music courses as electives will take the 400-series course in their major instrument or voice. Applied music majors in the Master of Music curriculum will take the 500-series course in their major instrument or voice for 4 hours per quarter. These are artist-level courses, and admis-

sion to them and to the degree program must be obtained from the chairman of the department after passing a jury examination.

Proficiency examinations will be given to all entering students and comprehensive examinations will be administered during the terminal quarter. Please consult the *Handbook for Graduate Study in Music* for more detailed information.

#### MASTER OF MUSIC DEGREE

Requirements include 18 hours in the major area for history-literature and theory-composition, and 12 hours for applied majors; Music 501-3, 502-6, 599-3 to 9 (thesis), and electives in music to make a total of 48 hours.

Thesis credit for the applied major may be met by presenting a full recital for 6 hours credit and a research document for 3 hours credit.

#### MASTER OF MUSIC EDUCATION DEGREE

General requirements include 20 hours of which a minimum of 12 hours must be in music education courses. A maximum of 8 hours may be elected in fields outside music after consultation with the adviser. Other requirements include Music 501-3, 503-3, and 599-9 (thesis, or 9 hours of course work as approved by the director of graduate studies), and electives in music to make a total of 48 hours, of which 9 hours must be in the areas of graduate theory and/or music literature. At least two quarters of ensemble experience are required and can be counted as part of the major.

#### DOCTOR OF PHILOSOPHY DEGREE

This doctoral program, in education, consists basically of 96 hours, including 30 in general education (curriculum and instruction), 30 in music education and/or general music courses, and 36 in dissertation. Specific courses depend upon individual needs and will be determined through consultations with the student's program committee. The dissertation may be in the field of music education but should demonstrate general educational research techniques. To be admitted to this program, a candidate must have earned a 4.50 grade point average at the master's level in music and must score 50 per cent or above on the Miller Analogy test. Application for admittance to this program may be made through either the College of Education or the Department of Music.

For specific repertoire requirements in each course see the Applied Music Appendix of the Department of Music.

### PHILOSOPHY

The Department of Philosophy offers graduate work leading to the Master of Arts and Doctor of Philosophy degrees. Graduate courses in philosophy may be used also as a minor in programs leading to the Master of Arts or Master of Science in Education degrees. Students who do not plan to continue work in philosophy beyond the master's level are encouraged to elect a graduate minor or to combine philosophy with another subject in a 60-hour double major.

The department expects an applicant for admission to its graduate pro-



gram to have had at least 24 hours' work in philosophy or closely related theoretical subjects, including at least one quarter in ethics, one in logic, and a year in the history of philosophy. The department may waive a portion of this credit requirement in favor of maturity and of quality and breadth of academic experience. The applicant will be required to make up serious background deficiencies by taking appropriate undergraduate philosophy courses without credit.

The Department of Philosophy requires the candidate for a master's degree to present a thesis, for which 9 hours of credit are allowed. He must pass two examinations: a written examination covering the nature and prof-fered solutions to the persistent problems of philosophy as dealt with by major philosophers from Thales to the present and an oral examination devoted chiefly to the thesis. In the written examination emphasis will be placed on such classical figures as Plato, Aristotle, Descartes, Spinoza, and Kant, but the student will be expected to answer questions involving at least two recent philosophers, one of whom will be an American.

A reading knowledge of one foreign language, usually French or German (indicated by successful completion of a year's work in the language in college or by special examination), is required of each candidate. The student who expects later to enroll in the Doctor of Philosophy degree program in philosophy is urged to take the language examination required in that program.

Applicants for the Doctor of Philosophy degree in philosophy should submit with their application forms scores for the Graduate Record Examination. The department may, where other evidence of competence seems so to warrant, accept a candidate upon the condition that he later submit acceptable scores.

At the time of his acceptance in the program the student will be assigned an advisory committee who will help him plan a program of study designed to prepare him for admission to candidacy. After the student has accumulated at least 36 hours of credit beyond the master's degree, and before he begins work on the dissertation, he must take a written preliminary examination on the thought of one major figure in the history of philosophy and in the following four areas: history of philosophy; logic, methodology, and philosophy of science; metaphysics and theory of knowledge; and value studies.

Before he is allowed to take the preliminary examination the student must have demonstrated reading proficiency in two foreign languages.

After he has passed his language examinations and the preliminary examination and has completed 48 hours of work beyond the master's degree, the student is admitted to candidacy and assigned a doctoral dissertation committee which will supervise the research and writing leading to the dissertation. After the dissertation has been accepted by the committee, the student is given an oral examination on the dissertation and related topics.

The department has available each year a number of assistantships for qualified graduate students. Applications for these assistantships should be sent to the department before February 15 of the academic year preceding



that for which the application is made. An effort is made to give every candidate for the doctor's degree supervised experience in teaching elementary work in the field of philosophy.

## PHYSICAL EDUCATION

Graduate courses in physical education may be taken as a major or minor toward the Master of Science in Education degree or the Doctor of Philosophy degree in education.

### MASTER'S DEGREE

The departmental requirements for unconditional admission as a master's degree candidate are:

1. Fulfillment of the requirements for admission to the Graduate School.
2. Presentation of at least an undergraduate minor (preferably a major) in physical education.
3. Presentation of an overall undergraduate grade point average of 3.70 or better.
4. Presentation of at least one undergraduate course in anatomy, physiology, or kinesiology and at least one in educational psychology or psychology of the particular field of the student's specialty, (such as adolescent psychology).
5. Possession of the ability to teach and demonstrate an acceptable variety of physical education activity skills and techniques.

A student may be conditionally admitted to the program and be permitted to do graduate course work while he removes deficiencies.

Physical education courses required of all majors and minors are 400, 500, 501, 502, 503, and 504. Certain other courses may be required to remedy weakness in a student's background preparation.

Requests for transfer of credit from other institutions will be considered only before admittance into this program.

This program is made up of 20-32 hours of required courses in physical education, 0-12 hours of electives courses in physical education, and 16 hours either in a minor area or in several fields, with no attempt being made to achieve a minor in any one field.

### *Minor*

Students majoring in a related area may minor in physical education. The minor consists of 16 hours, including 501, 502, and 503. For students who have not had adequate courses in tests and measurements and in principles of physical education, 400 and 406 are also required.

### DOCTOR OF PHILOSOPHY DEGREE

One may pursue a program of study leading to a Doctor of Philosophy degree in education through the functional area of curriculum and instruction.

The department qualifications for admission to advanced graduate study are:

1. Fulfillment of the requirements of the Graduate School and the College of Education.

2. Presentation of professional course work equivalent to Southern Illinois University's undergraduate and master's programs in physical education.

3. Achievement of a satisfactory score on the Graduate Record Examination advanced test in physical education.

A student may be permitted to start advanced graduate work while making up deficiencies.

Three years of full-time graduate study after obtaining a bachelor's degree or two years of full-time graduate study after a master's degree (or its equivalent) constitute the minimum requirement for the doctorate. The student and his adviser will determine a pattern of course work to equip the student in physical education and its allied fields, foundations of education, cultural courses outside the area of education, and for independent research.

The program of studies beyond the master's degree must include a minimum of 96 hours of approved graduate courses, including a required core of 12 hours, of which 60 hours must be in courses on the 500 level or above. Of these, 36 hours must be in Dissertation 600. Any dissertation credit beyond 36 hours may not be included as part of the 96-hour requirement. Additional work beyond the 96 hours may be required to insure professional competence and broad cultural knowledge.

Competence in research tools as required by the Graduate School must be demonstrated.

The procedure for beginning a program of study leading to a Doctor of Philosophy degree is as follows:

1. Submit an application for admission, with transcript or transcripts, to the Graduate School.

2. Apply for admission to the Department of Physical Education as well as to the appropriate functional area.

3. If admitted, the coordinator of the functional area will arrange for proper counseling and programming in the field of specialization.

## *P H Y S I C S*

Graduate work in physics may be taken as a major or minor leading to the Master of Arts or Master of Science degrees, or as part of a physical sciences program toward the Master of Science in Education degree. Both experimental and theoretical research can be undertaken in the fields of molecular, solid state, and nuclear physics. Some of the specific areas included are nuclear spectroscopy, gaseous ion molecule reactions, ultrasonics, oxides as semiconductors, magnetic resonance, laser optics, dielectrics, and surface physics. Computer facilities are available for research data analyses including an IBM 7040.

Each candidate for the master's degree in physics must take 511 (or mathematics equivalent), 501a,b, and 530. He must demonstrate a reading knowledge of French, German, or Russian. He must either write a thesis or take 9 additional hours of course work in physics at the 500 level, in lieu of the thesis. If the thesis is chosen, at least 6 hours of elective course work should be taken in physics at the 400 or 500 level.



## *PHYSIOLOGY*

Graduate courses in physiology may be taken as a major toward the Master of Arts, Master of Science, Master of Science in Education, and Doctor of Philosophy degrees, and as a minor toward the Master of Arts and Master of Science degrees. Graduate courses in physiology also may contribute to a major in biological sciences toward the Master of Science degree, and to one in biological sciences in education toward the Master of Science in Education degree.

All graduate students must take the Graduate Record Examination and submit scores to the department before admission or during the first term.

The graduate prerequisites at the master's level include the equivalent of an undergraduate major in biological sciences plus inorganic, analytic, and organic chemistry and a minimum of one full year each of physics and mathematics. Qualified students are also encouraged if they have had training in chemistry, physics, mathematics, psychology or engineering.

For a master's degree in physiology, a student must ordinarily work two years, demonstrate competence in one foreign language, and present an acceptable thesis based upon original investigation. Equivalent work completed elsewhere can be accepted in part.

Courses should be elected from other departments such that a major of about 32 hours and a minor of about 16 hours are attained. Because of the importance of biochemical and biophysical knowledge to physiology, students are urged to select their minors in those areas. Other biological sciences may also be acceptable, after consultation with the chairman of the department.

Training is provided in cellular, comparative, and mammalian physiology. Because of this trichotomy, entering students are urged first to obtain a basic knowledge of the whole field and then to specialize in one of the three areas after being advised by the chairman of the department or departmental graduate adviser. Training is also available in human anatomy and in electron microscopy.

Students entering the doctoral program should ordinarily have at least the same prerequisites as those entering a master's program, except that courses in calculus and physical chemistry are highly recommended. Students with prior majors in chemistry, physics or engineering, but little training in biological sciences, are equally eligible for admission to the program.

A competence in one foreign language which has been selected by the student and his adviser plus Mathematics 410a,b,c or its equivalent, are necessary for admission to doctoral candidacy. In addition, if they or their equivalents have not previously been taken, biochemistry and physical chemistry are necessary before admission to candidacy. In special circumstances, depending upon the specific goals of the candidate, physical chemistry may be waived.

The total program must be provisionally formulated upon entrance, and evaluated periodically thereafter, in consultation with the chairman of the department.

Three years of full-time graduate study after obtaining the bachelor's



degree, or two years after the master's degree (or its equivalent) usually constitute the minimum requirements for the doctorate. A thesis is required.

### *PLANT INDUSTRIES*

The Master of Science degree can be earned in the Department of Plant Industries in the general fields of soils, field crops, and horticulture. Graduate courses in plant industries may also be taken for a Master of Science degree minor.

It is customary to require supporting courses in botany, microbiology, chemistry, statistics, and other areas deemed essential for an intelligent approach to a problem in the student's chosen field and to prepare him adequately for acceptance for the Doctor of Philosophy degree if he has that potential. Once the general field has been selected, the research and thesis may be completed in any one of the many divisions of that field: In horticulture, for example, the research and thesis may be in olericulture, pomology, small-fruits culture, or turf management; in soils, the problem may relate to fertility, soil physics, soil microbiology, soil chemistry, or soil and water conservation; in field crops, the problem may be directed toward crop production and management, weeds and pest control, and other supplementary areas. Often a problem can combine study in two of these more restricted divisions.

Important research facilities are available in the department and through three cooperative experimental farms. Within the Department of Plant Industries there are adequate greenhouse facilities adjacent to the agriculture building for experimental work. In addition, approximately eighty-three miles north of Carbondale the department operates the Southwestern Farms as an agronomy research center. The cooperative units include: the Illinois Horticulture Experiment Station, and the Agronomy Research Center which are operated cooperatively with the University of Illinois; and the Small Fruits Research Station which is operated cooperatively with the United States Department of Agriculture, Agriculture Research Service, Crops Research Division.

The purpose of the Horticulture Experiment Station is to provide facilities for research and demonstration with fruit, vegetable, and ornamental crops. The station's land area includes a twenty-eight-acre south unit, a fifty-five-acre west unit, and approximately twenty-five acres for vegetable research. The station headquarters, located on the west unit, includes a combination research-laboratory storage building, a machinery shed, a sash-type greenhouse, a plastic greenhouse, and a propagation cellar. A pond of one and one-half acres provides water for spraying and irrigating. Specific projects undertaken include the testing, breeding, and developing of fruit, vegetable, and ornamental varieties adapted to southern Illinois; studying fundamental problems related to cultural methods and to rootstock-variety combinations; and providing demonstrational areas for students and growers.

The purpose of the Agronomy Research Center is to provide facilities for soils and crops research and demonstrations. The station includes approximately one hundred acres of land at two locations. Projects are con-

ducted on a cooperative basis by personnel of the University of Illinois and Southern Illinois University, or independently by personnel of either institution. Studies are conducted to develop acceptable varieties of field and forage crops, emphasizing their adaptability to southern Illinois; and to seek answers to fundamental problems in the management of soils and the culture of crops. Demonstrations are developed for observation by students and other interested persons.

The purpose of the Small Fruits Research Station is to provide facilities for research investigations on breeding, production, and disease control of strawberries, blueberries, brambles, and other small fruits. The station includes ninety acres of suitable land supplemented by an irrigation pond and a station service center with a shop, machine storage, and field laboratory located on immediately adjacent acreage. The pond has a capacity of approximately fifteen million gallons. The Federal Government has constructed several greenhouses with headhouses in connection with this station.

The purpose of the Southwestern Farms Experiment Station is similar to that of the Agronomy Research Center with respect to soils and demonstration but includes forestry research and demonstration as well. There are approximately 183 acres in this farm, located south of Scott Air Base near Belleville, and the land is approximately evenly divided between soils and crops research and demonstration in plant industries and similar use in forestry.

Because of the diversity of areas of interest in the Department of Plant Industries, no general curriculum is applicable for all graduate students. Each graduate student's background is studied carefully by a committee chosen for his specific area of interest, and his approval for admission to study in the department is made upon the condition that weaknesses in his background be satisfied. When the student is on campus he is invited to attend the committee's discussion so that he understands fully why every requirement is made.

The Department of Plant Industries requires for approval to do graduate work that a student have not less than a 3.50 grade point average in the last 50% of his work, which must include 20 hours in his major undergraduate field. The undergraduate major may be in any area, but the undergraduate area has much to do with the preparatory courses required by his advisory committee.

An oral examination over all graduate work and the submission of a thesis are required.

For additional information concerning programs and assistantships write to the chairman, Department of Plant Industries, Southern Illinois University, Carbondale, Illinois 62901.

## *PSYCHOLOGY*

The Department of Psychology offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. The primary emphasis is on doctoral training, for which the master's degree is a prerequisite. All students are admitted as Doctor of Philosophy degree applicants on the assumption that they will complete the doctoral program. The



minimum number of graduate hours required for the Doctor of Philosophy degree is 144. At least 24 of these are dissertation hours. The master's program requires two years of full-time residence and a thesis.

Doctoral programs are offered in general experimental psychology and in the professional areas of clinical, counseling, and industrial psychology. The general experimental program embraces the research areas of learning, motivation, sensation, perception, psychophysics, social, child, and personality.

In addition to approved programs of study, doctoral students in the clinical, counseling, and industrial areas must complete the equivalent of a full-time academic year of internship in an agency approved by the department. Doctoral students in general experimental psychology have an equivalent period of experience in teaching or research.

Minor programs may be worked out in all areas in which specialization is offered, provided that the candidate presents suitable preparation for the level of work to be undertaken.

Separate application forms for both the Department of Psychology and the Graduate School must be filled out. No student will be accepted for graduate work in the department without prior application to, and approval by, the departmental admissions committee as well as the University's Admissions Office. Departmental application forms concerning fellowships and assistantships may be obtained from the chairman, Department of Psychology. Application forms may be obtained from the Graduate School.

It is apparent that psychologists are faced with demands to deal with an ever-increasing range of problems, basic as well as applied. As a consequence, the goal of graduate study at Southern Illinois University is to develop psychologists who will have a broad perspective and scientific sophistication, as well as the requisite skills to advance the field of psychology and meet changing needs. To accomplish this aim, a program composed of four integral parts has been developed: the core curriculum, specialization, research and practicum opportunities, and training assignments.

#### CORE CURRICULUM

The core curriculum is designed to give systematic work in both the theoretical and substantive material of general psychology (501-12), in quantitative methods (Mathematics 410-8), and in research design (522). This curriculum is considered basic to all areas of specialization and is required of all students in their first year of graduate training.

#### AREAS OF SPECIALIZATION

##### *1. General Experimental Psychology*

The general experimental program is planned for the student who wishes to have a broad academic course of advanced study in psychology. It is primarily intended for students working towards careers in teaching and research. While considerable flexibility is permitted so that the student may select courses from several areas, he is expected to concentrate in at least one area, e.g., learning, sensory processes, social, child, etc. Required



courses: 409 and 509. In addition, the student is required to take research credit (591) or its equivalent during all but the first quarter of residence.

### *2. Clinical Psychology*

The clinical program, approved by the Education and Training Board of the American Psychological Association, provides training such that the student may prepare for a career in clinical activities, research, or teaching. The student is expected to become competent in clinical skills and to be able to evaluate critically the techniques which are currently available. To aid in this preparation and to encourage a research orientation generally, each clinical major is required to take 595-1 during all but the first quarter of residence. Additional requirements are as follows: 523, 531, 593e-9, 541, 543-6, 537, and 598. In order to complete his major, the student must take a minimum of 41 hours of clinical courses exclusive of the 595-1.

### *3. Counseling Psychology*

The counseling program, approved by the Education and Training Board of the American Psychological Association, is designed to prepare the student for a variety of careers in counseling. As an integrated specialty area of the clinical program, the extent of specialization depends largely on the particular interests of the student. Required courses: 523, 530, 421, 536, 547, 593f-9, and 598. In addition, the following electives are strongly recommended: part or all of the diagnostic sequence (541, 543-6), 538, 431, and additional measurement courses, and work from other disciplines.

### *4. Industrial Psychology*

The industrial program is designed to prepare students for a wide range of research activities in the industrial area. It includes 593h-6, and other courses selected in conference with the adviser.

#### RESEARCH AND PRACTICUM

Because of our commitment to the importance of broadening the scientific base of psychology and to the development of skills in the application or teaching of psychological principles, a variety of research and practicum experiences is considered an integral part of the student's training. Therefore, with the exception of the first quarter, the student is expected to participate in research or practicum each quarter of residence.

Research may be of the student's own design or may be in conjunction with various studies being conducted by staff members. Research competence in original individual research is required of all students.

#### TRAINING ASSIGNMENTS

As a vital part of our graduate training program, each student must be engaged in a training assignment each term. These assignments vary according to the needs and professional aspirations of the student. They are designed to supplement the formal course work by a variety of preprofessional activities such as assisting in research, teaching, etc., under staff supervision. The training assignment increases in responsibility as the student progresses.

The amount of time required of the student varies from 10 to 20 hours a week, depending upon his level of progress, the type of assignment, etc. The purpose of these assignments is to expose the student to some of the types of activities that he will ultimately be engaged in after he receives his degree.

## RECREATION AND OUTDOOR EDUCATION

The Department of Recreation and Outdoor Education offers courses of study leading to the Master of Science in Education degree. The curricula are based on the philosophy that in modern times recreation education must assume the burden of preparing students to live in a leisure-oriented society. The course of study draw upon sixteen departments of the University. Recreation and outdoor education is an inter-disciplinary program with four areas of specialization.

1. School and Community Recreation. The school and community recreation team is a large one. It includes the municipal and the county agencies, the churches, the school system, and all the private and voluntary recreation agencies.

2. Recreation for Special Populations. Mental hospitals, nursing homes, schools for retarded, prisons, and other institutions are becoming more aware of the important place that recreation plays in the education, habilitation, and rehabilitation of the ill and handicapped, emotionally disturbed, juvenile delinquents, and law offenders.

3. Outdoor Recreation Management. There is an increasing need for more professional personnel who can assume positions of responsibility and leadership in outdoor recreation establishments and agencies. College graduates with a background in biological sciences and prepared in recreation management have greatly expanded employment opportunities.

4. Outdoor Education. Increased emphasis on outdoor education in the form of outdoor education centers, school forests, and school farms together with the increased concern for after-class activities have created greater demands for qualified leaders in this field.

All students admitted to the master's program are expected to complete the core-curriculum requirements of 20 hours selected from Recreation 450, 510, 520, 530, 540, Educational Administration 500, and Sociology 487a. Students then decide on their area of specialization and are assigned to an adviser.

A thesis is required.

Supervised field experience, practicums, and internships are offered to help future leaders put theory into practice under the guidance of experienced professionals.

## REHABILITATION

### REHABILITATION COUNSELING

*General:* A two-year graduate program leading to either a Master of Arts or Master of Science degree. Each degree requires a minimum of 72 quarter



hours plus a three-month internship, the difference being that the Master of Arts requires a formal thesis and oral exam while the Master of Science requires a research paper in place of the thesis.

Required courses include statistics, methodology, counseling, medical information, and extensive practicum and field work experiences in a variety of rehabilitation settings.

There is considerable flexibility in the curriculum so that special interests or needs of students can be pursued by careful selection of electives. Some suggested electives include personality dynamics, social psychology, community development, crime and corrections, group processes, educational psychology, and processes in social work.

The program in rehabilitation counseling is supported in part by the Vocational Rehabilitation Administration and is designed to train rehabilitation counselors for state, federal, and other rehabilitation settings.

*Mental Retardation:* Within the rehabilitation counseling framework an emphasis may be pursued in mental retardation. This emphasis features modifications from the general program which stress academic and practicum experience with the retarded. In addition to gaining an understanding of the psychological, psycho-social, and physical origins of human behavior and their relevance to rehabilitation, the student receives a basic and thorough understanding of mental retardation and its related problems. Practicum and internship experience provides for the development of competence in the procedures and techniques utilized in habilitation. These skills include primarily adjustment and vocational counseling as well as methods of vocational appraisal and placement. The curriculum provides sufficient background to render the graduate capable of functioning in a variety of settings serving the adjustment and vocational needs of the retarded.

#### REHABILITATION ADMINISTRATION

The program in rehabilitation administration is designed for the rehabilitation worker who already has a wide range of experience in rehabilitation settings but lacks the formal training often necessary to assume positions of greater responsibility. While the curriculum includes many of the areas in the rehabilitation counselor training program there is generally less emphasis on counseling skills and testing.

This program requires a minimum of 48 quarter hours, which can be completed in one calendar year. An internship may be required depending on individual background.

#### BEHAVIOR MODIFICATION

The program in behavior modification is intended to provide training for students interested in the application and development of techniques useful in the practical application of the behavioral sciences to human and social problems. Two years of graduate work may lead to either the Master of Arts or the Master of Science degree. A minimum of 72 hours is required for either degree. A one quarter full-time internship at an approved, affiliated training center is also required.

The emphasis of the program is applied. Within this framework the



student in consultation with his adviser may elect to specialize in a particular age group, type of setting, or behavioral area. A number of elective courses in other departments are available according to the specialized needs of individual students. A laboratory for the study of human behavior is located in the Rehabilitation Institute and in the University School. Additional facilities exist at the Anna State Hospital and the A. L. Bowen Children's Center.

A student may expect to take courses in the following areas: scientific methods, the functional analysis of behavior, complex human behavior, measurement in behavior change, the structural basis of behavior, and child behavior.

Students wishing to apply for admission to the behavior modification program should write to the Rehabilitation Institute for application forms. Information regarding fellowships and assistantships may also be obtained from the Institute.

### *SECONDARY EDUCATION*

One may work in this department toward the Master of Science in Education degree and toward the Sixth-Year Specialist's Certificate. In addition, the department offers courses that are applicable to most of the functional areas of the Doctor of Philosophy degree program in education.

A program consisting of 48 hours of work for the master's degree will be arranged jointly by the Department of Secondary Education and the subject matter area department in which the student plans to teach. A student's undergraduate record, experience, and future plans will be taken into account in determining the number of courses in secondary education and subject matter to be taken. Supportive courses will be found for those individuals who plan to work in junior colleges or other high school or post-high-school situations.

The work leading to the Sixth-Year Specialist's Certificate is arranged in terms of the needs and future plans of the student. Many of the same procedures used in selecting courses at the master's level are also applied in this program.

It is assumed that the plans of candidates seeking the Doctor of Philosophy degree and taking courses in the Department of Secondary Education will involve one or more of the following: teacher or chairman of a department in a secondary school, director or supervisor of secondary curriculum, professor of secondary education in a higher institution, director of student teaching and/or student teachers in a laboratory school. Courses are also offered which support the program in secondary administration, although students seeking certification or a degree in this field are advised in the Department of Educational Administration and Supervision.

### *SECRETARIAL AND BUSINESS EDUCATION*

Graduate courses in business teacher education may be taken as a major or minor in the Department of Secretarial and Business Education leading to the Master of Science in Education degree. The program in business teacher education consists of a minimum of 48 hours of course work dis-

tributed as follows: (1) 18–24 hours in business teacher education courses; (2) 12–18 hours in other School of Business courses; (3) 12–18 hours in College of Education courses; and (4) 0–12 hours of approved electives.

The graduate program is planned for those students who have an adequate subject-matter and professional-education background in at least one of the following business teaching areas: (1) secretarial, (2) general business, (3) bookkeeping and accounting, or (4) distributive education. Deficiencies in background must be eliminated by taking appropriate courses.

The graduate program is aimed at upgrading and making more proficient those individuals who have already met or surpassed the minimum requirements for teaching business subjects in the high schools of Illinois. The dual purpose of the program is to provide advanced professional education in business teaching fields and to develop competence in utilizing research findings in the field. In keeping with the general requirements of the Graduate School, each student is required to write a research paper. Those who have special interest and ability in research or who expect to go on to advanced graduate study are encouraged to write a thesis.

Graduate courses in business teacher education also may be taken as a part of a graduate program in the Department of Secondary Education leading to the Master of Science in Education degree.

## *S O C I O L O G Y*

The Department of Sociology offers programs of graduate study leading to the Master of Arts and Doctor of Philosophy degrees. Several areas of major or minor concentration are provided for advanced work beyond the general master's program. These areas are: social disorganization, deviance, and control; social organization, with particular reference to complex organization and the community; social psychology; the sociology of the family; sociological theory. In addition, a special program in sociology and corrections, leading to the master's degree in sociology, is offered in cooperation with the Center for the Study of Crime, Delinquency, and Corrections.

Close ties are also maintained with the Community Development Institute, the Public Affairs Research Bureau, Clinical Services, and the Computer Center which may offer special opportunities for graduate student training and research.

Applicants for admission to graduate study in sociology should apply in writing to the chairman of the department. Detailed statements of departmental requirements for the Master of Arts and the Doctor of Philosophy degrees are available upon request.

## *S P E C I A L   E D U C A T I O N*

Several programs leading to a Master of Science in Education degree are offered by the Department of Special Education: First, courses which lead to certification as a teacher of exceptional children may be included in the master's degree program. This training is specifically designed for individuals who have had successful teaching experience in regular classrooms and who wish to qualify as teachers of mentally retarded, emotionally disturbed, or acoustically handicapped children.

Second, for persons holding certification in some area of teaching



exceptional children, a program designed to meet the requirements for special education administrative positions is offered. This is a program which is flexible enough to meet the needs of persons with a background in any one of a variety of special education areas.

Third, a Sixth-Year Specialist's Certificate Program in special education with emphasis on one or more areas, including special education supervision, is available.

Finally, building on the core requirements of the functional area of Educational Psychology, a Doctor of Philosophy degree in education with an emphasis in special education is offered. This program has its base in the requirements indicated in the functional area of educational psychology. Specific course requirements for the emphasis in special education include extensive seminar experiences in the study of all types of exceptional children.

A number of graduate fellowships under Public Law 85-926 (as amended by Public Law 88-164) are available to qualified persons seeking careers in special education through study in this department.

### *S P E E C H*

Courses are offered in speech leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. The Master of Arts and the Master of Science degrees are offered with specialization in public address, interpretation, and general speech. Courses in speech may be taken as a part of the program leading to the Master of Science in Education degree.

The student should submit the equivalent of an undergraduate major in speech in order to be admitted unconditionally as a full-time graduate student for the master's degree.

The program of course work leading to the master's degree includes areas and techniques of research and a seminar in the area of emphasis. A total of 48 hours is required for the degree. Competence in one foreign language is required for the Master of Arts degree.

The research requirement for the master's degree may be met by either of the following plans:

#### *Plan 1*

1. Submit a thesis demonstrating ability to do research on a topic approved by the graduate committee of the Department of Speech.
2. Take a minimum of 39 hours of course work.
3. Pass an oral examination over the thesis and course work.

#### *Plan 2*

1. Submit a research paper as evidence of a knowledge of formal research techniques, a copy of which will be submitted to the Graduate School for its permanent records.
2. Take a minimum of 48 hours of course work.
3. Take a comprehensive written examination over the course work taken for the degree.

The student will be given a choice as to which of the above plans he



wishes to take; however, the graduate committee of the Department of Speech will make the final determination as to which requirement the student must meet.

The Doctor of Philosophy degree with majors in rhetoric and public address, general speech, and theater is offered by the department. Emphasis at the doctoral level is on competency in the area of specialization and in research. The research program is designed to provide the student with a knowledge of the processes and techniques involved in advancing basic understandings in the various areas of speech: experimental, descriptive, historical, and critical.

The major in rhetoric and public address is designed to acquaint the student with the materials and methods in areas of history and criticism of speech. Specialized courses involve studies in British and American public address; classical, medieval, renaissance, and modern rhetorical theory; seminars in discussion, persuasion, and rhetoric and public address. The program of each student is designed to meet particular needs in terms of the background of previous work.

The major in problems in oral communication (general speech) involves a more general program. The student takes a minimum of 15 hours including a seminar from each of three of four areas: general speech and speech education, oral interpretation, rhetoric and public address, and theater. This program is designed to meet the needs of students interested in the various areas of the field of speech.

The major in theater is based upon specialized work in theory of drama and the theater, theater history, and dramatic production in which a minimum of 24 hours must be taken, and in more general courses from rhetoric and public address, interpretation, general speech, and speech education from which a minimum of 24 hours must be included.

Candidates for the Doctor of Philosophy degree must demonstrate competence in two foreign languages, or one foreign language and another research tool such as statistics if suggested by the department.

### *SPEECH PATHOLOGY AND AUDIOLOGY*

The Department of Speech Pathology and Audiology has as its objective the training of qualified personnel to work with people impaired in either speech or hearing. Course work leads to certification as a speech therapist or audiologist in public schools and rehabilitation centers by meeting certification requirements of the American Speech and Hearing Association.

Professional experiences for graduate students are provided in the following settings: the University's Cooperative Clinical Services Center; a summer residential camping program for persons with organic speech problems, in cooperation with the University of Illinois Division of Services for Crippled Children; the V. A. Hospital in Marion; A. L. Bowen Center for Retarded Children; and the Anna State Hospital. Cooperative programming is maintained with other public and private agencies such as the Division of Vocational Rehabilitation, the Easter Seal Society, and the American Hearing Society. Students participate in traveling speech and hearing clinics which serve schools and communities through the media of surveys, diagnos-

tic examinations, and therapy. The department has available VRA Traineeships and Office of Education fellowships for support of graduate education.

Specialized experiences with orthodontists, prosthodontists, plastic surgeons, otologists, and others of the medical and dental professions are available in the St. Louis area. Emphasis is on the interdisciplinary relationships with other professions throughout the training process.

The department maintains active research facilities which provide laboratories and specialized equipment for the study of both the normal and impaired functions of the speech and hearing processes. The speech laboratory is equipped for electromyographic study of the speech musculature, respirometry, and spectrographic analysis of speech signals. The experimental audiology laboratory, which includes an anechoic chamber, provides basic signal sources and electronic switching apparatus, Bekesy audiometry, PGSR, and a Zwislocki acoustic bridge. Facilities are also available for the use of palmar sweat measurements as a physiological index of anxiety, and for the study of pathoanatomy and pathophysiology of cleft lip and cleft palate through roentgenocephalometrics and cinefluoroscopy.

Graduate courses in the Department of Speech Pathology and Audiology may be taken as a major leading to the Master of Arts, Master of Science in Education, Master of Science, and Doctor of Philosophy degrees. Requirements for the various degrees are determined through advisement commensurate with professional growth of the student.

### *TECHNICAL AND INDUSTRIAL EDUCATION*

A program leading to the Master of Science in Education degree is available in the School of Technology for persons seeking advanced work in the teaching of industrial, vocational, and technical subjects. The programs of study in the area of technological and industrial education are designed to provide professional preparation, instructional competencies, facilities and opportunities for advanced study in one of the areas of industrial arts teaching, vocational teaching, or technical teaching.

A program of study for industrial arts teaching prepares persons for teaching industrial arts in the elementary grades, junior high, senior high, college, and university programs. Advanced professional and technical courses are available for specialization in teaching.

Students of advanced academic standing are provided with professional preparation in trade and industrial subjects enabling them to become qualified teachers, coordinators, supervisors, directors, and administrators in vocational-industrial programs. Advanced study is oriented toward principles and philosophy, organization, and administration and supervision of trade and industrial programs.

Advanced students who have acquired scientific and technical backgrounds may pursue a specialized curriculum enabling them to qualify for positions as teachers in technical programs. The curriculum includes pedagogical preparation in combination with advanced study in technological areas related to industry, engineering, and science.



Individual programs of study are developed for each student by an adviser and advisory committee. The exact nature of the program will depend upon the student's deficiencies, needs, interests, and goals. While a certain amount of flexibility is permitted so that courses may be taken in other areas, the student is expected to concentrate or specialize in a major area by accumulating no less than 30 quarter hours of credit in an approved specialization in addition to meeting the requirements for teacher certification. The general requirements for the Master of Science degree or the Master of Science in Education degree are consistent with the requirements outlined in this catalog with a minimum of 48 hours of graduate credit required.

Students wishing to pursue a major in one of the technological areas should apply to the Graduate School office in accordance with university policy established for the admission of graduate students. Acceptance in a degree program is made by the School of Technology. The student and his adviser will nominate a committee to advise the student on his program of study. Programs of study must be approved by the student's advisory committee. Teaching and research assistantships are available for qualified applicants. Additional information about the courses of study, teaching and research assistantships, or fellowships may be obtained from the School of Technology.

### *T H E A T E R*

The Department of Theater offers courses leading to the Master of Arts, Master of Science, and Master of Science in Education degrees and contributing to the Doctor of Philosophy degree in speech with a theater specialization. Candidates for master's degrees must complete 48 hours of graduate credit; the Master of Arts candidate must demonstrate competence in a foreign language. Each candidate for the master's degree will produce a thesis or its equivalent (creative work in play direction, costume or scene design, playwriting, etc.). The chairman appoints a director for each candidate's program. The Doctor of Philosophy degree program in speech with a specialization in theater is open to students holding a master's degree. Doctor of Philosophy degree candidates are required (1) to complete a minimum of 48 hours in theater and speech; and (2) to complete a theater dissertation (although properly qualified candidates may offer a creative equivalent) under the supervision of an advisory committee. Graduate courses in theater may also be taken as a minor leading to the Doctor of Philosophy degree in speech.

Candidates for the Doctor of Philosophy degree who have a special interest in dramatic literature may earn the degree by substituting dramatic literature courses (offered in the Department of English) for theater courses.

An undergraduate major in theater is not essential for admission to candidacy for a graduate degree. A student with an undergraduate major in speech or English, for instance, may audit undergraduate courses in theater to make up any deficiencies.

Graduate students are urged to supplement their class work with practical experiences in acting and production: membership in the Southern



Players is open to graduate students, and they may also earn graduate credit as members of the Southern Touring Company and the Summer Stock Company.

## ZOOLOGY

Graduate work in zoology may be taken as a major or a minor toward the Master of Arts, Master of Science, and Doctor of Philosophy degrees and as a part of a program in biological sciences toward the Master of Science and the Master of Science in Education degrees.

Candidates for the Master of Science and Master of Arts degrees must have the consent of the department and at least 35 hours of undergraduate credit in zoology equivalent to 102, 103, 202, 300, 310, and 401. Further required undergraduate work includes one year of college chemistry with laboratory (equivalent to Chemistry 111) and one year of college mathematics including algebra and trigonometry (equivalent to GSD 114). Deficiencies in undergraduate preparation may be removed concurrently with graduate work.

Completion of work for the Master of Arts degree requires, in addition to the general requirements of the Graduate School, a reading knowledge of one foreign language, calculus (equivalent to Math 150), an approved thesis, Zoology 581, and continuous registration in Zoology 582, or, in the instance of approved conflict, registration for the seminar in another biological science department. A minor outside the department is required.

The requirements for completion of the Master of Science degree are the same as for the Master of Arts with the following exceptions: (1) a reading knowledge of a foreign language is not required; (2) a research paper may be offered in lieu of a thesis; (3) introductory statistics (equivalent to Guidance 422b), rather than calculus, is required; and (4) the student must complete 54 quarter hours of formal courses, including 36 in zoology.

In addition to the above requirements for the Master of Arts degree (except for Zoology 581), the Doctor of Philosophy degree requires organic chemistry, animal physiology, experience in marine invertebrate natural history, demonstrated proficiency in statistics or in a second foreign language, and other requirements that may be set by the student's advisory committee. A dissertation is required.

Areas of specialization possible within zoology include developmental biology, invertebrate zoology, systematics, wildlife management, ornithology, genetics, fish management, cytochemistry, ecology, parasitology, entomology, limnology, herpetology, vertebrate morphology, mammalogy, vertebrate paleontology, and animal behavior.

# Course Descriptions

3

Here are described all of the courses offered by the University for graduate credit. Courses are listed numerically within each subject-matter area. Areas are listed below in the order of their appearance on the following pages.

Accounting	German	Philosophy
Agricultural Industries	Russian	Physical Education
Animal Industries	Spanish	Physics
Anthropology	Forestry	Physiology
Applied Science	Geography	Plant Industries
Art	Geology	Psychology
Botany	Government	Recreation and Outdoor
Business Administration	Guidance and Educational	Education
Chemistry	Psychology	Rehabilitation
Clothing and Textiles	Health Education	Secondary Education
Design	Higher Education	Secretarial and Business
Economics	History	Education
Educational	Home and Family	Sociology
Administration and	Home Economics	Special Education
Supervision	Education	Speech
Elementary Education	Instructional Materials	Speech Pathology and
Engineering	Journalism	Audiology
Engineering Technology	Management	Technical and
English	Marketing	Industrial Education
Finance	Mathematics	Theater
Food and Nutrition	Microbiology	Zoology
Foreign Languages	Music	
French		

The first entry for each course is a three-digit numeral which serves to identify the course. Courses numbered 400–499 are open to both seniors and graduate students. Courses numbered above 499 are for graduate students only.

Following the course identification number is another number, which indicates the maximum credit allowed for the course. The maximum may vary, and specific credit hours may be assigned for each quarter a course is given.

After each course description are the prerequisites which must be satisfied before a student is permitted to enroll.

The final entry for each course is one or two letters. The letter C means that the course is available only on the Carbondale campus, the letter E on the Edwardsville campus. The absence of any letter means that the course is offered on the two campuses.

To learn in which quarter a course is offered, the student should consult the Schedule of Classes published for both campuses by Central Publications, Southern Illinois University, Carbondale, Illinois 62901.



## ACCOUNTING

**410-4 Accounting Concepts.** Interpretation and critical analysis of reports, statements, and other accounting data from the viewpoint of users of financial information. Restricted to Master of Business Administration students.

**415-4 Electronic Data Processing in Business.** An introduction to computers and their uses in business applications; computer components, programming, and analysis of business systems; exploration of effects of computers upon business organization and society. Prerequisite: 251c. C

**432-4 Problems in Federal Taxation.** Income tax problems of partnerships, corporations, estates, and trusts; brief study of social security, federal estate, and gift taxes; solving of complicated tax problems by research in source materials. Prerequisite: 341. E

**442-4 Advanced Cost Accounting.** Managerial control and profit planning through capital budgeting, inventory planning, subjective probabilities, statistical methods, and operations research; direct and relevant costing; nonmanufacturing costs; differential and comparative cost analysis. Prerequisite: 341.

**453-4 Advanced Accounting (C).** **453-8 (4,4) Advanced Accounting (E).** Advanced study of accounting principles and procedures relating to specialized topics, including partnership equity, installment and consignment sales, insurance, compound interest, and preparation and use of consolidated statements. Prerequisite: 351b.

**456-4 Auditing.** Objectives, standards, and procedures involved in examining and reporting on financial statements of business organizations. Prerequisite: 341 and 351b.

**458-4 Accounting Systems.** Problems in accounting systems design and installation. Examination of existing systems and practice in system design and reports. Prerequisites: 331, 341, 351b.

**459-4 Internship in Accounting.** Supervised work experience in professional accounting. Prerequisite: consent of department. C

**461-4 Advanced C.P.A. Problems.** A course using problems from the American Institute of Certified Public Accountants' examinations given in recent years and supplementary problems from selected sources. Prerequisite: 341 and 351b.

## AGRICULTURAL INDUSTRIES

**410-2 to 4 Problems in Agricultural Services.** Discussion, assignments, and special workshops on problems related to inservice training programs in the agriculturally related fields. Development of more effective programs in working with farm people. Prerequisite: graduate student in agricultural services or consent of instructor. C

**411-3 Agricultural Extension.** A study of the history, organization, objectives, programs, and methods of agricultural extension work. Prerequisites: Journalism 393 and a course in psychology or sociology or consent of instructor. C

**413-3 Agricultural Education Practices.** C

**417-4 Agricultural Development in Emerging Countries.** Principles and practices in improving agriculture in areas with limited capital and low levels of technology. Special emphasis on developments in Asia, Africa, and South America. Prerequisites: GSB 211-9 and consent of chairman. C

**450-4 Advanced Farm Management.** Methods of analyzing farm enterprises, comparing farm enterprises, comparing farm businesses, allocating farm resources, combinations of enterprises, and production factors. Field trips. Prerequisite: 350. C

**456-11 (3,2,2,2,2) Agricultural Marketing Problems and Practices.** (a) Cooperatives. Development of the agricultural cooperative movement, agricultural cooperative organization, legal requirements, principles and practices of agricultural cooperative associations. (b) Livestock. Problems and their solutions in marketing livestock. (c) Field Crops. Problems and their solutions in marketing field crops. (d) Dairy and Poultry. Problems and their solutions in marketing dairy and poultry products. (e) Horticultural Crops. Problems and their solutions in marketing horticultural crops. Field trip cost \$5. Prerequisites: 354, GSB 211a, or consent of instructor. C



- 471-4 Land Resource Economics.** (Same as Forestry 471 and Economics 471.) The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resources planning techniques. Field trips cost about \$5. Prerequisite: GSB 211, Economics 215, or Forestry 215, or Forestry 470. C
- 478-4 Advanced Farm Machinery.** Materials on construction; basic mechanics involved in tillage machinery; rotary power transmission; product cleaning, drying, and sorting; costs of operation; materials handling. Prerequisites: 350, 373, and 374, or consent of instructor. C
- 505-3 Agricultural Economics Research Methods.** Agricultural economics research methods with particular reference to types of research problems encountered, sources of data, problems in developing new data and methods of analysis. Prerequisite: consent of chairman. C
- 520-1 to 6 Readings.** Contemporary books and periodicals on selected areas of the field. C
- 520b-1 to 6 Readings in Resource Economics.** (Same as Forestry 520b and Economics 502.) Directed reading in the field of natural resource economics. C
- 550-4 Production Management.** A study of the principles of production economics upon which problems in agricultural production and resource use can be analyzed. Emphasis on principles applicable to the farm business and to farm policy, including concepts relating to the decision-making process and farm planning under perfect and imperfect knowledge and with limited resources. Prerequisites: 12 hours equivalent in economics, agricultural economics, and consent of instructor. C
- 552-2 Advanced Agricultural Prices.** Continuation of analysis of factors affecting agricultural prices; the application of these factors in price prediction. Prerequisite: 352. C
- 554-4 Advanced Agricultural Marketing.** Current complex problems in agricultural marketing and methods of developing solutions; cooperative activities. Prerequisite: 12 hours or equivalent in economics and agricultural economics. C
- 575-1 to 6 Research.** Directed research in selected areas of agricultural industries. C
- 581-1 to 6 Seminar.** Problems relating to various phases of the field of agricultural industries, such as farm management, marketing, prices, farm policy, land economics. C
- 582-1 to 3 Seminar on Foreign Agricultural Problems.** C
- 599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

## ANIMAL INDUSTRIES

- 415-8 (4,4) Animal Nutrition.** (a) Physical and chemical properties of nutrients and their uses and principles involved in determination of nutrient requirements. (b) An integration of the basic facts concerning the nature of nutrients and their metabolism. Must be taken in a,b sequence. Prerequisites: 315, GSA 101 or equivalent. C
- 420-4 Commercial Poultry Production.** Broilers, layers, and turkeys as adapted to poultry specialty farms. Field trips. Prerequisite: 125. C
- 430-4 Dairy Production.** Milk production; feeding, breeding, calf raising; records, buildings, and equipment; sanitation; and disease. Field trip costs about \$5. Prerequisites: 231, 315. C
- 431-4 Reproduction and Artificial Insemination of Farm Animals.** The anatomy and physiology of reproduction and the principles of artificial insemination in farm animals. Prerequisites: 105 or 231, GSA 201c. C
- 432-3 Quantitative Inheritance of Farm Animals.** A review of the principles underlying the influence of mutation, selection, migration, and random drift in animal breeding population; estimation and interpretations of heritabilities and genetic correlations; effects of variances of quantitative traits of farm animals. Prerequisite: 332. C
- 433-3 Dairy Cattle Feeding.** Nutrient requirements of dairy cattle. Feeding calves and heifers for economical growth and cows for economical milk production. Pasture, hay, and silage utilization in milk production. Prerequisites: 231, 315. C
- 456b-2, 456d-2 Agricultural Marketing Problems and Practices.** (See Agricultural Industries 456.) C

- 465-4 to 5 Swine Production.** Breed selection, breeding, feeding, management, and marketing of swine. Field trip costs about \$3. Prerequisites: 105, 315. C
- 480-4 Sheep Production.** Breeding, feeding, and management of sheep. Field trip costs about \$3. Prerequisites: 105, 315. C
- 485-4 Beef Production.** Breeding, feeding, and management of beef and dual-purpose cattle. Field trip costs about \$3. Prerequisites: 105, 315. C
- 486-4 The Range Livestock Industry.** Designed to acquaint advanced animal industries students with range livestock operation; consists of full-time classroom review of beef cattle and sheep production followed by a two- to three-week field trip through the range area. Prerequisites: 480, 485. C
- 487-4 Commercial Livestock Feeding.** Principles and problems in fattening beef cattle and sheep for market. Prerequisites: 105, 315. C
- 505-8 (4,4) Research Methods in Agricultural Science.** (a) Experimental design and biometry as applied to agricultural research. (b) Instrumentation and analytical procedures as applied to agricultural research. Prerequisite: consent of instructor. C
- 520-1 to 6 Readings in Animal Industries.** Readings in specialized fields under direction of approved graduate specialists. C
- 525-4 Advanced Poultry Production.** Study and interpretation of the objectives, design, and results of research in poultry feeding, breeding, and management. Prerequisite: consent of instructor. C
- 530-4 Advanced Dairy Production.** Study and interpretation of research in dairy farming, including buildings, herd management, quality milk production, and dairy marketing problems. Prerequisite: 430. C
- 565-4 Advanced Swine Production.** Study and interpretation of research in swine feeding, breeding, housing, management and marketing problems. Prerequisite: 465. C
- 575-1 to 6 Individual Research.** Investigation of a problem in animal science under the supervision of an approved graduate specialist in that field. C
- 579-4 Animal Behavior** (Cross listed with Zoology 579). C
- 581-1 to 6 Seminar.** Problems relating to various phases of animal industries. C
- 585-4 Advanced Beef Production.** Principles and practices in beef cattle production in the light of research findings. Prerequisite: 485. C
- 599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

## ANTHROPOLOGY

- 400-4 Man and Culture.** The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on "the anthropological point of view." C
- 401-4 Language in Culture.** Language as a part of culture. Linguistics and the study of culture. C
- 402-4 Human Biology:** The interaction of biological and cultural behavior. This course would view man as to his zoological positions, genetics, past and present; and the biological bases for his unique behavior in the animal world, i.e., cultural behavior. C
- 404-4 Primitive Art and Technology.** The development of man as an art-loving and tool-using being. Artistic and technological traditions of non-Western peoples, past and present.
- 405-4 Social Anthropology.** A comparative approach to the organizational features of human groups. Functional aspects and distributions of kinship, political, religious, and economic systems.
- 408-8 (4,4) History of Anthropological Thought (C).** **408-4 History of Anthropological Thought (E).** The growth of anthropology to about 1860, followed by a more intensive survey of the concepts and ideas of anthropology during the past hundred years.
- 409-4 Anthropology and Modern Life.** The applications of anthropological principles to the solution of problems of the modern world. Contributions of anthropology to the work of the educator, social worker, administrator, business man, government official, and other specialists dealing with man in Western and non-Western cultures.



- 413-4 Introduction to General Linguistics.** A study of language theory, classification and change. C
- 415-3 Logic of the Social Sciences.** (Same as Philosophy 415). Logical and epistemological examination of the social studies as types of knowledge. Basic problems in philosophy of science with major emphasis upon social science: relationship of theory to fact, nature of induction, nature of causal law, testability, influence of value judgments, etc. Intended for students with considerable maturity in a social science or in philosophy. C
- 416-4 Culture Change.** Examination of long and short range culture change, acculturation process and innovation, theory and method of study of culture change. E
- 418-4 Languages of the World.** A description of typological and genetic (historical) relationships among languages of the world, with emphasis on comparative phonology and grammatical structure in time and space.
- 430-4 Archaeology of North America.** An introduction to the methods of archaeology and a survey of prehistoric Indian cultures north of Mexico, with particular emphasis upon the cultures of the Mississippi Valley. E
- 483-3 to 18 Individual Study in Anthropology.** Guided research upon anthropological problems. Students should consult the chairman before enrolling.
- 501-9 (3,3,3) Pro-seminar in Physical Anthropology.** C
- 503-9 (3,3,3) Pro-seminar in Archaeology.** C
- 505-9 (3,3,3) Pro-seminar in Linguistics.** C
- 507-9 (3,3,3) Pro-seminar in Social Anthropology.**
- 509-9 (3,3,3) Pro-seminar in Ethnology.** C

The following seminars will deal with areal and topical problems relevant to the title listed; they will vary in subject matter from year to year. Course schedules will indicate who is the instructor of a particular course. Consultation with the department will indicate the scope of a course.

- 510-3 to 27 Seminar in New World Archaeology.**
- 511-3 to 27 Seminar in Mesoamerican Archaeology.**
- 512-3 to 27 Seminar in Old World Archaeology.**
- 520-3 to 27 Seminar in the Ethnology of the New World.**
- 521-3 to 27 Seminar in the Ethnology of Mesoamerica.**
- 522-3 to 27 Seminar in the Anthropology of Oceania.**
- 523-3 to 27 Seminar in the Anthropology of Africa.**
- 524-3 to 27 Seminar in the Anthropology of Europe.**
- 535-3 to 27 Seminar in Physical Anthropology.**
- 545-3 to 27 Seminar in Linguistics.**
- 550-3 to 27 Seminar in the Cultures of Latin America.** Topics such as the impact of European conquest and dominance upon the native peoples and cultures in Latin America, pre- and post-conquest manuscripts, assimilation of nonindigenous peoples, with the native cultures.
- 560-3 to 27 Seminar in Comparative Social Organization.** Topics such as religion, political organization, social structure, economics, kinship.
- 562-3 to 27 Seminar in the Anthropology of Contemporary Peoples.** Topics such as applied anthropology, peasant cultures, American culture and values.
- 565-3 to 27 Seminar in Cultural Change and Development.** Topics such as the building of cultures, acculturation, the rise of civilization.
- 567-3 to 27 Seminar in Anthropological Theory and Method.** The theory and method of archaeology, or ethnology or physical anthropology.
- 570-3 to 27 Seminar in Art and Technology.** Topics such as the art of the early civilizations, the cultural background of art and technology, experimental problems of art, and technology. C
- 575-3 to 27 Seminar in the Individual and Culture.** Topics such as themes and values, culture personality, enculturation, education. C
- 581-3 to 27 Seminar in Anthropology.** Topics will be announced.
- 582-3 to 27 Problems in Archaeology.** Guided research upon archaeological problems.



**584-3 to 27 Problems in Cultural Anthropology.** Guided research upon problems of ethnology, social anthropology, and linguistics. C

**585-3 to 27 Readings in Anthropology.** Guided readings designed to cover special topics and to fill gaps in the student's specialized anthropological background.

**595-6 (3,3) Field Methods in Ethnology.** Includes anthropological methods of enquiry and documentation of culture and habitat together with appropriate instruction in the techniques of field work, such as photography and sound recording. Stress will be laid in the second part of the course (595b) on the linguistic context of culture; its appropriate recording and structural body.

**596-6 (3,3) Field Methods in Archaeology.** Includes anthropological methods of enquiry and documentation of culture and habitat, together with appropriate instruction in the techniques of field work. Stress will be laid in the second part of the course (596b) on the practical application of archaeological methods and techniques to field work.

**597-3 to 27 Fieldwork in Anthropology.** Requirements as directed by staff.

**599-5 Thesis.** C

**600-1 to 48 Dissertation.** No more than 18 hours in any quarter. C

## APPLIED SCIENCE

**401-12 (4,4,4) X-Ray Crystallography.** (a) Introductory Crystallography. Lattice theory of the crystal. Miller indices. Crystal zones. The Bravais lattices. Symmetry elements. Proper and improper rotations. Point groups: crystal classes. Operators involving translation. Space groups. Elements of crystal structure. Coordination. Structure types. (b) X-Ray Diffraction Techniques. X-ray diffraction by single crystals: fundamental equations. Reciprocal lattice and Ewald sphere. Optical analog: The optical diffractometer. Single crystal photographic methods: the Laue method: rotating and oscillation, Weissenberg, Buerger-precession and Jong-Bourman. Divergent and convergent-beam techniques. Interpretation of the x-ray diagrams. Diffractometric methods; fundamentals. Identification of polycrystalline materials with x-ray diffractometer (power method). Single crystal diffractometry. Absolute intensity measurements. (c) Crystal Structure Analysis. Fundamental diffraction relations. Determination of the cell size, chemical formula, symmetry and space group. Measurement of intensities: geometrical and physical factors affecting intensities. The structure factor; phase of the structure factor. The anisotropic temperature factor. Fourier synthesis. Electron-density projections. The phase problem. Utilization of anomalous dispersion. Direct determination. The Patterson method. Refinement of the structure with high speed computers. C

**418-3 Digital Computers in Research.** Computational techniques for matrix inversion, solution of linear equations, and characteristic roots and vectors; least square analysis, curve-fitting, and regression; design of experiment; solution of non-linear equations; finding zeros of a function, min-max functional approximation techniques; generation of approximate solutions. Prerequisite: Engineering 222 or Mathematics 225 or equivalent experience and concurrent enrollment in Mathematics 421a. C

**419-3 Computer Applications.** A study of methods for efficient utilization of high speed electronic data processing equipment in the processing of statistical data. Emphasis is on principles of applications of computing equipment to the solution of statistical problems. Students are expected to solve problems on the computers. Prerequisite: Mathematics 410a or Guidance 520a or Psychology 520, a knowledge of FORTRAN or consent of instructor. C

**420-3 Digital Computers in Research.** Basic foundations used in operations research. An intensive study in the use of digital computers as related to topics such as probability and statistics, matrices, game theory, Monte Carlo techniques, distribution and scheduling problems, and simulation. Prerequisite: Mathematics 225.

**421-3 Programming Languages.** A study of the development and use of programming languages for high speed stored program digital computers. Included are problem-, procedure-, and machine-oriented languages, symbolic languages, interpretive systems, macro assemblers, and list processors. A comparison of the languages will be made

and each student will prepare programs using the languages studied. Prerequisite: Engineering 222 or consent of instructor. C

**422-3 Programming Systems.** The use and methods of electronic data processing systems. Topics are searching, ordering, codifying, information retrieval, process control, executive routines, and heuristic programming. The student will apply system techniques for solution of problems using one or more of the available high speed digital computers. Prerequisite: Engineering 222 or Mathematics 225 or consent of instructor. C

**425-2 to 8 Practicum in Technology.** Experiences in the industrial applications of technological knowledge. Cooperative arrangements with selected corporations and professional organizations provide opportunity to study technical problems in the industrial environment under the direction of specialists. Prerequisite: 12 hours in technical subjects, consent of the instructor. C

**430-2 to 8 Special Problems in Industry and Technology.** Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of coordinator. C

**431-9 (3,3,3) Nuclear Science.** An introductory course to provide a background for further work in nuclear science. Lectures and problems in radioactivity and the uses of radio isotopes, nuclear engineering, introductory reactor theory, and use of an analog computer in solving problems of neutron transport and reactor kinetics. Prerequisites: Mathematics 252b and Applied Science 300. C

**432-3 Nuclear Laboratory.** Health physics instruments; characteristics of alpha, beta, and gamma rays; radioactive decay; counting statistics; fundamental neutral experiments. Prerequisite: 300. C

**450-4 Fundamentals of Reactive Systems.** Chemical processes, stoichiometry, properties of gases, solution chemistry, modern techniques of analysis, surface chemistry non-ideal systems, rates and mechanics of industrial processes. Instrumentation and process control. Laboratory. Prerequisites: Chemistry 111b,c, and one year of calculus or consent of instructor. C

**470-6 (3,3) Engineering Analysis.** (a) Basic vector field theory; transformation theorems. Methods of solution for basic ordinary differential equations with applications to engineering systems. Prerequisite: Mathematics 252. (b) Basic methods of solution for partial differential equations with emphasis on applications of the Laplace, Poisson and heat equations to engineering problems. Basic complex variables, matrix theory, numerical analysis and simulation techniques applied to engineering systems. Prerequisite: 470a or Mathematics 305a. C

**501-16 (4,4,4,4) Materials Science.** (a) The Crystal Structure of Materials. The concept of ionic, metallic, van der Waals, and covalent bond. The concept of hydrogen bond. Solid solutions. Interstitial phases. The crystal chemistry of inorganic compounds. Coordination structures. The role of radicals in crystal structures. The organic crystals. Long chain molecular crystals. Clathrate and molecular complexes. The structure of polymers. The structure of glass. The structure of liquids. (b) Crystalline Materials Preparation. Phase rule. Modern theories of crystal growth. Homogeneous and heterogeneous nucleation. Absorption. Layer growth. Dendritic growth: impurities. Rate of crystallization. Preparative crystallization. Twinning. Spiral growth theory. Recrystallization. (c) Perfection of Crystalline Materials. The solid as an imperfect body. Point defects. Isomorphic substitution. Composition disorder. Electron holes and traps. Other point defects. Diffusion. Monodimensional imperfections. Dislocations. The role of dislocations in growth and phase transition. Two dimensional imperfections. Crystal surface. Grain boundaries. Three dimensional imperfections. The role of imperfections in the physical properties of crystalline materials. (d) Thermodynamics of solids. The potential energy of ionic and molecular crystals. Band theory. Stability of solid phases. Equilibrium diagrams. Influence of temperature, pressure, and composition. Polymorphism: role of crystal structure. The thermodynamics of the imperfect crystal. C

**503-12 (4,4,4) Physical Properties of Crystalline Materials.** (a) In Relation to Its Symmetry. General principles: The groundwork of crystal physics. Transformations and second-rank tensors. Equilibrium properties: The stress tensor. The strain tensor and thermal expansion. Piezoelectricity: Third rank tensors. Elasticity: Fourth-rank



tensors. The matrix method. Thermodynamics of equilibrium properties of crystals. Transport properties: Thermal and electrical conductivity. Thermoelectricity. Crystal Optics: Natural and artificial double refraction: second order effects. Optical activity. (b) In Relation to Its Structure I. Thermal expansion in relation to crystal structure. Compressibility in relation to crystal structure. Influence of temperature. Magnetic and electrical properties in relation to crystal structure. Piroelectricity and piro-magnetism. Ferroelectricity and ferroelectrics. Antiferroelectrics. Ferrielectrics. Ferromagnetic crystals. Antiferromagnetics. Domain structures. Phase transitions. (c) In Relation to Its Structure II. Ionic polarizabilities. Influence of temperature. Influence of structure in crystal optics. Molecular refractivity. Structural theory of optical activity. Elasticity and crystal structure. Piezoelectricity. Plastic deformation. Slip. Creep. Cleavage. C

**504-12 (4,4,4) X-Ray Diffraction and the Solid State.** (a) Diffraction by an arbitrary object in Fourier transform formulation, symmetry properties of scattering functions, the convolution theorem, the Q function or autoconvolution, the two repeated Fourier transformations, X-ray diffraction by an atom, by a molecule, by an ideal crystal and by a finite crystal. Optical transforms: Fraunhofer diffraction of a circular aperture, of a molecule and of a crystal of disc like atoms. The Fourier synthesis and the Patterson synthesis. The inverse Fourier syntheses. High speed computations of Fourier transforms and of Fourier series. (b) The Born-Laval theory of temperature diffuse scattering of x-rays: Determination of elastic constants, dispersion relations of frequencies and velocities, interatomic force constants and elastic vibrational spectrum. Determination of Debye characteristic temperatures from the inversion phenomenon of one-phenon scattering. The Difference Fourier Transform approach. The use of optical diffractometry and optical convolution in the interpretation of imperfect crystals. C

**521-6 (3,3) Design of Automatic Programming Language Processors.** Analysis of design and construction of automatic programming language processors. An investigation of the structure of scientific and business oriented compilers, list processors, and information processing languages. The student will be expected to review recent papers on these topics, to prepare an aspect of the theory, prepare flow charts and program segments of the processors for the languages studied. Prerequisite: 421. C

**522-6 (3,3) Programming Systems Design.** Design of monitor systems, executive routines, simulators and other systems. An analysis of problems encountered in designing a programming system. The student will be expected to review recent papers on these topics, prepare flow charts, to complete an aspect of the theory, and to write programs for segments of the systems studied. Prerequisite: 422. C

**523-3 Digital Simulation Techniques.** Advanced course in computer applications. The use of digital computers to simulate complex stochastic systems. Variance reduction techniques. Prerequisite: 420 or consent of instructor. E

**524-6 (3,3) Linear and Non-Linear Programming.** Optimization techniques for processes with linear and nonlinear constraints. The application of operations research principles, gradient methods, game theory, peak-seeking methods, and dynamic programming to management and control problems. Prerequisite: bachelor's degree in mathematics, natural science, or engineering. E

**530-3 Nuclear Processing.** Processing of ore to fuel; reprocessing spent fuel; waste disposal; isotope separation and purification; materials; special reports. Prerequisite: 431b. C

**531-8 (4,4) Operations Analysis and Synthesis.** Mathematical bases for decisions and programming in industry; models, methods, and objectives of systems engineering; specific methods and problems; emphasis on practical validity and use of empirical methods. Problem solving in operations research, including research-type reports by students. Prerequisite: bachelor's degree in mathematics, natural science, or engineering. E

**560-8 (4,4) Automatic Control Theory.** Principles of feedback control applied to linear, lumped parameter systems analysis using Nyquist, Bode, rootlocus, phase plane; stability criteria. Use of control theory in automated industrial processes and instrumentation; engineering examples and projects. Prerequisite: bachelor's degree in mathematics, natural science, or engineering. E



- 570-2 to 6 Special Investigations.** For students who wish to make a thorough study or investigation of a specific problem in technological education. C  
**580-1 to 9 Seminar.** Collective and individual study of selected issues and problems relating to various technological areas. C  
**599-1 to 9 Thesis.** C

## A R T

- Art Education:** 408, 460, 466, 560, 566, 599.  
**Art History:** 445, 482, 483, 571, 573, 599.  
**Studio:** 401, 405, 406, 410, 416, 420, 430, 436, 440, 441, 446, 493, 501, 502, 504, 506, 511, 516, 520, 526, 530, 540, 546, 599.
- 401-2 to 12 Research in Painting.**  
**405-2 to 12 Studio in Sculpture.**  
**406-2 to 12 Studio in Painting.**  
**408-4 Art Education for Elementary Teachers II.**  
**410-2 to 12 Research in Prints.**  
**416-2 to 12 Studio in Prints.**  
**420-2 to 12 Research in Pottery.**  
**426-2 to 12 Studio in Pottery.**  
**430-2 to 12 Research in Metal Construction.** C  
**436-2 to 12 Studio in Metal Construction.** C  
**440-2 to 12 Research in Weaving.** C  
**441-2 to 6 Studio in Drawing.** C  
**445-9 (3,3,3) Modern Art.** (a) 19th century, (b) Early 20th century, (c) Mid 20th century. C  
**446-2 to 12 Studio in Weaving.** C  
**447a-3 The Art of Ancient Egypt and the Near East.** A survey of principal monuments and archeological evidence relevant to an appraisal of the origins and development of art in the early civilizations of Africa, Western Asia, Europe and the Aegean from prehistoric times to the rise of the Persian Empire. C  
**447b-3 The Art of Ancient Greece.** A study of the origins, development and influence of art produced in Greece and its colonies from the Bronze age to the Roman Empire. C  
**447c-3 The Art of The Ancient Romans.** An appraisal of the material culture of art of the Roman civilization, its debt to other ancient civilizations and achievements in architecture, sculpture and painting from its foundation until the reign of Constantine. C  
**448a-3 Early Christian and Byzantine Art.** A survey of problems related to art and architecture produced in Christian communities and under the aegis of the Byzantine Empire until the Fall of Constantinople. C  
**448b-3 Early Medieval and Romanesque Art.** A study of the development of architecture and Art in Europe from the fall of the Roman Empire to the formulation of the Gothic style. C  
**448c-3 Gothic Art.** A survey of major developments in Architecture, Sculpture, and painting in Europe from the earliest formulation of Gothic Style to its decline in the Renaissance period. C  
**449a-3 Art of the Renaissance in Europe.** A study of developments in art during the Fifteenth Century in Italy and the Lowlands leading to the High Renaissance and its impact in European painting, sculpture and architecture of the Sixteenth Century. C  
**449b-3 Baroque Art in Europe.** A study of the formation of national style in the arts of Italy, Spain, Austria, Germany, France, Flanders and Holland from the 16th Century to the 17th Centuries with particular attention to major masters. C  
**449c-3 The Art of 18th Century Europe.** A study of architecture, sculpture and painting in European countries and colonies from the end of the 17th Century to the French Revolution with particular emphasis on the Rococo Art of Italy, England, Spain and France. C

- 450-1 The Visual Arts in Higher Education.** C
- 451a-3 Art of Ancient Asia and America.** A survey of early developments in architecture and the plastic arts of related civilization in India, China, Japan and Ancient America, from prehistoric evidence to major monuments of the First Millenium, A.D. C
- 451b-3 Painting In the Far East.** General survey of the major pictorial arts of China from six dynasties to Ch'ing dynasty, or Korea from Silla period to Ti dynasty, and of Japan from Asuka to Edo periods. An attempt will be made to trace influences central to the development and spread of important styles and to relate art to the classics of Oriental aesthetics. C
- 451c-3 Islamic Art.** A survey of important monuments and art works produced in the context of Islamic culture in the Near East, Africa, Spain, Persia, Turkey and India from the 17th Century to the present. C
- 460-2 to 12 Research in Art Education.**
- 466-2 to 12 Studio in Art Education.**
- 471-3 Baroque Painting in Italy.** Major developments in style and expression in Italian painting from the late Mannerist period until the early 18th Century. C
- 482-3 Art History Seminar.** Lectures, readings, and reports on artists, styles, subjects of special interest which will be announced periodically. C
- 483-3 Research in Art History.** Individual research in the painting, sculpture, architecture, and related arts of the various periods.
- 493-2 to 12 Advanced Sculpture.** C
- 501-2 to 12 Seminar in Painting.**
- 502-2 to 12 Seminar in Sculpture.**
- 504-2 to 12 Research in Sculpture.** C
- 506-2 to 12 Research in Painting.** C
- 511-2 to 12 Seminar in Prints.**
- 516-2 to 12 Research in Prints.** C
- 520-2 to 12 Seminar in Pottery.**
- 526-2 to 12 Research in Pottery.** C
- 530-2 to 12 Seminar in Metal Construction.** C
- 536-2 to 12 Research in Metal Construction.** C
- 540-2 to 12 Seminar in Weaving.** C
- 546-2 to 12 Research in Weaving.** C
- 560-2 to 12 Seminar in Art Education.**
- 566-2 to 12 Research in Art Education.**
- 571-2 to 5 Readings in Art History.**
- 573-3 to 12 Problems of Art History.** A detailed study of single works of stylistic problems in selected areas of world art. C
- 599-5 to 9 Thesis.** C

## BOTANY

- 400-5 Plant Anatomy.** An introduction to cell division, development, and maturation of the structures of the vascular plants. Laboratory fee \$5. Prerequisites: 300, 301 or consent of instructor. C
- 403-3 History and Principles of Plant Taxonomy.** Important concepts in plant classification through the ages, and study of the International Code of Botanical Nomenclature. Consideration of the functions of genetics, evolution, morphogenesis, and ecology in taxonomy. Prerequisite: 203 or consent of instructor. May be repeated. E
- 404-5 The Algae.** Structure, development, and relationships of the algae. Laboratory and some field work. Laboratory fee. Prerequisite: 300.
- 405-5 Mycology.** Structure, development, and relationships of the fungi. Problems of economic and scientific interest stressed. Laboratory. Prerequisite: 300.
- 406-5 Industrial Mycology.** A consideration of the myriad ways in which fungi impinge on man's affairs, with special emphasis upon their various industrial application—real and potential. 3 lectures and 4 laboratory hours per week. Prerequisite: 405 or consent of instructor. C
- 411-4 The Bryophytes and Pteridophytes.** Structure, development, and relationships



of the liverworts and mosses, and the ferns and fern allies. Laboratory. Prerequisite: 301. C

**412-4 The Spermatophytes.** Structure, development, and relationships of the gymnosperms and angiosperms. Laboratory fee. Prerequisites: 301, 313. C

**413-5 Comparative Morphology of Vascular Plants.** Comparative studies of representative groups of vascular plants, including origin, structure, development tendencies, embryology, and fossil evidence. Three lecture and 4 laboratory hours per week. Prerequisite: 202. E

**414-5 Paleobotany.** (Same as Geology 414). An introduction to the study of fossil plants emphasizing the major features of plant evolution and the applications of paleobotany to problems in the botanical and geological sciences. Lecture, laboratory, and field trips. Student cost about \$5. Prerequisite: 310 or 400 or consent of instructor. C

**420-4 Physiology of Fungi.** A treatment of the physiological activities of fungi with particular stress upon (1) those aspects peculiar to the group by virtue of their being nonchlorophyllous plants, and (2) an exploration of the possible explanations of the parasitic vs. the saprophytic habit. Prerequisite: consent of instructor. C

**425-15 (5,5,5) Advanced Plant Physiology.** (a) Physics of the plant, water relations, membrane phenomena, photobiology. (b) Covers the absorption, translocation, function and interaction of inorganic nutrient elements in green plants with application to forest, agronomic, and horticultural species. (c) Chemistry of the plant, anabolic and catabolic processes, photosynthesis, respiration, chemosynthesis. Prerequisites: 320, Chemistry 350, or a chemistry minor. C

**428-3 Plant Nutrition.** The physiological importance of carbon-, nitrogen-, and phosphorus-containing compounds is stressed. Prerequisites: organic chemistry, minor in botany or agriculture. C

**440-4 Ecology of Grasses and Grasslands.** Structure, analysis, and dynamics of grassland communities; structure and growth of individual species. Field and laboratory work costs about \$5. Prerequisite: GSA 340 or consent of instructor. C

**445-5 Ecology of Forests and Arable Lands.** Forest areas in North America. Developmental and structural analysis of forest types. Autecology of important species. Field trips, approximate cost \$10. Prerequisite: GSA 340. C

**449-3 Elements of Taxonomy.** Principles of taxonomic research including classical and experimental methods. 1 lecture and 4 laboratory hours per week. Field and laboratory expenses \$5. Prerequisite: 313 or equivalent, or consent of instructor. C

**450-3 Plant Geography.** World distribution of plants and plant communities related to historical, environmental, and floristic factors. Prerequisite: consent of instructor.

**451-4 Introduction to Floristics.** Principles involved and methods used in the analysis of the flora of an area. Laboratory and field work. Student cost about \$10. Prerequisite: 313. C

**456-5 Plant Pathology.** (Same as Plant Industries 355.) A study of plant diseases caused by fungi, bacteria, and viruses. Special attention given diseases of southern Illinois plants. Laboratory and field trips. Laboratory fee. Prerequisite: consent of instructor. C

**457-4 Forest Pathology.** Nature and control of forest and shade tree diseases. A study of tree diseases in forests, parks, streets, and nurseries. Fungi important in decay and stain of timber and its products are included. Laboratory fee. Prerequisite: 456 or consent of instructor. C

**470-4 Methods of Teaching High School Biology.** Methods, objectives, types of courses taught in secondary school biology. Laboratory and field trips. Prerequisite: major in botany or zoology. C

**480-4 Classic Principles of Botany.** Theories, principles, and developments in the various divisions of the plant sciences. Prerequisite: GSA 203 or consent of instructor. C

**501-4 Plant Biology for High School Teachers.** The principles of plant biology are illustrated. Emphasis is placed on the relation of the plant to the environment. Two lectures and two laboratories per week. Open only to graduate students in the National Science Foundation Program. Prerequisite: one year of biological science. C

**502-2 Recent Developments in Biological Sciences.** (Same as Zoology 502.) A series



of lectures based upon recent research, designed to acquaint the teacher with advances and changes in concepts. Prerequisite: one year of biological science. C

**503-15 (5,5,5) Angiosperm Taxonomy.** (a) Systematic treatment of all families of the monocotyledoneae. (b,c) Systematic treatment of all families of dicotyledoneae. Laboratory fee. Prerequisite: consent of instructor. C

**507-8 (C); 507-3 to 9 (E) BSCS—High School Biology.**

**522-5 Advanced Microtechnique.** Preparation and presentation of research materials. Laboratory work only. Prerequisite: consent of department. Credit on work completed. C

**525-5 Cytology.** (Same as Zoology 525). Physiochemical, chemical, and morphological organization of the cell. Ultrastructure of the cellular organelles. Cytochemical and submicroscopical organization of the hereditary material. Morphology and function of the spindle of the nucleus and chromosomes during the mitotic cycle. Synthesis and replication of nucleic acids. RNA and protein synthesis. The genetic code. Enzymes and cell metabolism. Prerequisite: 315 or Zoology 401. C

**526-5 Cytogenetics.** Correlation of cytology with genetics. Cell mechanics and nuclear division. Mitosis, meiosis, crossing over and mapping of chromosomes. Mutation, mitotic agents, effect of irradiation, polyploidy, structural aberrations, polytene chromosomes. Synthesis of new species, comparative karyomorphology. Evolution and cytogenetics. Prerequisite: 525 or consent of instructor (C); 315 or Zoology 401 (E).

**533-3 to 4 Growth and Development in Plants.** External and internal factors as they affect development and growth of plants, photoperiodism, and the role of growth-promoting substances. 1 hour to be arranged. Prerequisite: 320. C

**535-3 Energetics of Aquatic Ecosystems.** Energy flows in aquatic habitats; photosynthesis and respiration rate determinations under natural and laboratory conditions; determination of dominant genera in the communities; daily and annual energy budgets; factors influencing utilization of light by biotic systems; influence of daily and annual energy budgets on stratification on current systems, and on seasonal succession in the community. Prerequisite: consent of instructor. C

**542-3 Biosystematics.** An examination of species concepts and factors effecting the formation of species. Evidence from the fields of genecology, cytotaxonomy, genetics, numerical taxonomy, and chromotography are discussed as well as the phenomena of hybridization, polyploidy, and apomixis. Prerequisite: 315 or Zoology 401 or consent of instructor. C

**543-5 Experimental Ecology.** Experiments on plant response to environmental factors. Design of experiments, statistical methods, presentation of individual research findings. Laboratory. Prerequisites: 320, GSA 340, or consent of instructor. C

**551-4 The Natural Vegetation of the Mississippi Basin, Upland.** Floristic studies of the upland vegetation which occurs in the central basin of the Mississippi River. Student cost \$10. Prerequisite: 313 or consent of instructor. C

**552-4 Mississippi Flora, Aquatic.** An analysis of the aquatic vegetation of the Central Mississippi basin, discussing importance to wildlife. Student cost \$10. Prerequisite: 313 or consent of instructor. C

**555-12 (4,4,4) Advanced Plant Pathology.** (a) A study of facultative fungal parasitism with emphasis on the physiology of host-parasite interactions. (b) A study of obligate fungal parasitism with emphasis on the physiology of host-parasite interactions. (c) A study of bacterial and viral parasitism with emphasis on the physiology of host-parasite interactions and biochemistry of virus reproduction. Prerequisite: 456 or consent of instructor. C

**570-2 to 5 Readings.** C

**580-1 to 4 Seminar.** To be taken by all graduate students majoring in botany. C

**590-2 to 4 Introduction to Research.** Methods of presentation of research materials, including written reports, graphs, photographs, bibliographies. Taxonomy students learn to write keys and descriptions; Botanical Latin; nomenclature. C

**591-3 to 9 Research.** Assignments involving research and individual problems. Prerequisite: consent of department. C

**599-3 to 9 Thesis.** Work in the research for and presentation of a thesis. Not more than 9 hours nor fewer than 5 hours will be allowed on thesis work. Total hours in 591 and 599 cannot exceed 15 hours to be applied to the master's degree. C

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## BUSINESS ADMINISTRATION

**500-4 Research Methods and Communications.** Analysis and functional applications of the communication process in the planning, design and presentation of business research data. Provision of a rationale for subsequent studies involving investigative methods.

**501-4 Quantitative Methods for Decision Making.** Study of the means for testing the validity and reliability of managerial conclusions. Selected areas include criteria development, value analysis, and statistical analysis, including both parametric and non-parametric applications of analysis.

**502-4 Business and Society.** Study of the external environment of business; social, political and ethical dimensions; conflicts of business-labor-government power groups. Social responsibilities in the formulation of a business management philosophy.

**510-4 Managerial Accounting and Control.** Relationship of accounting to the functions of production, finance, and distribution; emphasis is given to the usefulness of accounting in administering and controlling an enterprise.

**511-4 Accounting Theory.** Contemporary advanced accounting theory, including controversial issues with emphasis on net income determination and asset valuation; particular attention given to current publications of the professional and governmental agencies. C

**512-4 Advanced Auditing.** Development of auditing theory and its implications for auditing practice; emphasis on auditing standards and concepts, pronouncements and bulletins of the American Institute of Certified Public Accountants, and current literature. C

**513-4 CPA and Advanced Accounting Problems.** Highly technical problems not covered in undergraduate courses primarily drawn from the American Institute of Certified Public Accountants' examinations. C

**514-4 Controllership.** Function of controllership in a business organization; analysis of the duties and responsibilities of a controller; contribution of a controller to effective planning, coordination, and control through accounting; case studies. C

**519-4 Seminar in Accounting.** Discussion of current problems and theories in accounting. C

**521-4 Business Conditions Analysis.** Adaptation of the business firm to business conditions as indicated by measurements, evaluations, and forecasts. C

**526-4 Managerial Economics.** A course in the economics of the firm. Emphasizes demand, costs, prices, and profits in developing a conceptual business-decision framework.

**530-4 Financial Management.** A study of financial principles and practices with special emphasis on their relation to managerial planning and control.

**531-4 Financial Policies.** An evaluation of selected financial policies of corporate enterprise with emphasis on capital budgeting, on the equity and current position. C

**532-4 Financial Institutions and Markets.** The principal financial institutions and markets will be studied in relation to their contribution to the efficient operation of the individual enterprise and the total economy. C

**539-4 Seminar in Finance.** Current issues and practices in business finance. Each student will select a problem for intensive exploration and report his findings to the class. C

**540-4 Managerial and Organization Behavior.** Case analyses of human problems in the business organization. Application of findings of behavioral science research to organizational problems. Development of direction and leadership skills.

**541-4 Operations Analysis and System Controls.** Study of production functions of the firm. Analyses of operational inter-relations, design of planning procedures, and the application of control systems. C

**542-4 History and Theory of Management.** An analytical study of the background and growth of management theory from its early beginnings to the present. Emphasis will be largely on the theory and practice of business management. C

**543-4 Personnel Management.** Study of the most recent developments in personnel



management. Individual reports, book reports, and survey of current professional literature form the bases of the course. C

**544-4 Production Management.** Study of the production function associated with various kinds of businesses. Concern is on the integration of production with other functions of business. Analyses with focus upon managerial problems. C

**549-4 Seminar in Management.** Study of contemporary theory and practice and recent trends in the field of management. Individual and group research reports. C

**550-4 Marketing Management.** A managerial approach in the determination of policies employed in solving problems in marketing.

**551-4 Product Strategy and Management.** Product management and its relationships with business policies and procedures; the development of multi-product strategies, means of developing such strategies, and the problems and methods of commercialization. C

**552-4 Advanced Marketing Research and Analysis.** The development of advanced procedures, methods and theory of quantitative and qualitative analysis of primary and secondary marketing data. C

**553-4 Transportation Management.** Students will be required to investigate and discuss before the seminar group such topics as intercarrier competition, rate level adjustment, financing, and public policy considerations. C

**554-4 Marketing Theory.** Theory in related disciplines is considered in regard to evolving marketing theory. Evaluation of possible theory applications is emphasized. C

**559-4 Seminar in Marketing.** Students select and defend, on an individual basis, problems in marketing theory, research, and policy. May be repeated once with consent of department. C

**580-4 International Business Operation.** An advanced course for candidates for the Master of Business Administration degree who have a background in business administration theory and practice and who have a special interest in management at the international level. C

**590-4 Independent Study.** Directed independent study in selected areas of business administration. C

**598-4 Business Policies.** A decision-making frame of reference for application of functional and tool area courses to business cases. Analysis of external and internal environmental constraints on business policy formulation and administration. C

**599-8 Thesis.** C

## CHEMISTRY

**411-4 Intermediate Inorganic Chemistry.** Modern inorganic chemistry involving atomic structure, chemical bonds, complexes, and chelate structures; chemistry of familiar and less familiar elements. 3 lecture hours per week. Prerequisite: 461b.

**412-3 Inorganic Preparations.** A study of several important inorganic syntheses. 1 lecture and 6 laboratory hours per week. Prerequisites: 235; 305b or 341c.

**432-8 (4,4) Instrumental Analytical Measurements.** Theory and practice of instrumental analytical measurements, including spectrophotometric, electro-analytical, and chromatographic methods. 2 lecture and 6 laboratory hours per week. May be taken in either sequence. Corequisite: 461b.

**433-3 Intermediate Quantitative Analysis.** A study of the analysis of complex materials, with emphasis on separations, functional group analysis, and instrumental applications. 2 lecture and 3 laboratory hours per week. Prerequisites: 432a or b and 461c.

**438-3 Review of Analytical Chemistry.** A review in depth of current analytical practices in research and industry, including fundamental equilibria, separations, and modern instrumental techniques; designed to update graduate students who are deficient in these areas. Prerequisite: Chemistry 433 or equivalent. C

**444-3 Organic Reactions.** A review of fundamental principles and an introduction to advanced topics. 3 lecture hours per week. Prerequisite: 341c.

**446-4 Qualitative Organic Analysis.** A systematic study of the separation and identification of organic compounds. 2 lecture and 6 laboratory hours per week. Prerequisite: 305b or 341c.



**447-3 Quantitative Organic Chemistry.** The determination of functional groups and elements commonly found in organic compounds by selected methods of analysis; illustration of general methods of procedure in the field of quantitative organic chemistry. 1 lecture and 6 laboratory hours per week. Prerequisite: 305b or 341c. C

**451-11 (3,3 or 4,3 or 4) Biochemistry (C); 451-8 (4,4) Biochemistry (E).** (a) Chemistry and function of amino acids, proteins, and carbohydrates. (b) Carbohydrate metabolism; lipid chemistry, function and metabolism; energy relationships. (c) Amino acid metabolism; enzyme kinetics; nucleic acid function and biosynthesis. Prerequisite: 235, 305b or 341c. Must be taken in a,b,c sequence.

**460-5 Theoretical Chemistry.** Traditional aspects of physical chemistry without the requirement of calculus. Lecture and laboratory. Prerequisites: 235; 305b or 341c, and one year of physics or consent of instructor.

**461-12 (4,4,4) Physical Chemistry.** A fundamental course in physical chemistry. 3 lecture and 3 laboratory hours per week. Prerequisites: 235 (concurrent), 341c, 12 hours of physics, and one year of calculus. Must be taken in a,b,c sequence, and each is a prerequisite for the next course in the sequence.

**464-3 Intermediate Physical Chemistry.** Intermediate between the first year of undergraduate physical chemistry and advanced physical chemistry. Gives a broad foundation in physical chemistry. 3 lecture hours per week. Prerequisite: 461c.

**471-3 Industrial Chemistry.** A survey of modern industrial chemistry and an introduction to chemical research processes. 3 lecture hours per week. Prerequisite: 305b or 341c. C

**490-2 Chemical Literature.** A description of the various sources of chemical information and the techniques for carrying out literature searches. 2 lecture hours per week. Prerequisites: 235; 305b or 341c, reading knowledge of German or consent of instructor.

**496-1 to 9 (C); 496-2 to 6 (E). Chemical Problems.** Investigation of relatively simple problems under the direction of a staff member. Prerequisites: senior standing, major in chemistry with a 4.00 grade point average, and consent of chairman.

**511-9 (3,3,3) (C); 511a-3 (E) Advanced Inorganic Chemistry.** Lecture. (a) A theoretical and empirical treatment of chemical bonding and molecular structure. (b,c) Systematic treatment of physical-inorganic chemistry based on the principles learned in (a). The b,c sequence is not mandatory. Prerequisite: 461c.

**517-3 Laboratory Techniques in Inorganic Chemistry.** Advanced techniques for the inorganic research chemist. Prerequisites: 412; 511c or 511b, and consent of instructor.

**519-2 to 30 (2 to 6 per quarter) Advanced Topics in Inorganic Chemistry.** Selected topics such as kinetics of inorganic reactions, stereochemistry of inorganic systems, chemistry of coordination compounds, nonaqueous solvent systems, and others. Prerequisites: 511a and consent of instructor.

**531-3 Theory of Quantitative Analysis.** The phenomena utilized in analytical chemistry with emphasis on separation, organic reagents, and complex methods. Lecture. Prerequisite: 433 or satisfactory field examination.

**532-3 Instrumental Methods of Analysis.** Theory and practice of instrumental measurements in analysis with emphasis on commercial samples and applications to research. Lecture and laboratory. Prerequisite: 432 or satisfactory field examination. C

**539-2 to 30 (2 to 6 per quarter) Advanced Topics in Analytical Chemistry.** Selected topics such as microanalytical chemistry, absorption spectroscopy, and electroanalytical chemistry. Prerequisite: 432.

**541-3 Advanced Organic Chemistry.** An advanced course covering covalent bonding, structure, stereochemistry, reactions, reaction mechanisms, substituent effects, correlation of physical and chemical properties, and physical methods in organic chemistry. Lecture. Prerequisite: 444 or satisfactory field examination.

**542-3 Advanced Organic Chemistry.** Continuation of Chemistry 541. Lecture. Prerequisite: 541. C

**543-3 Advanced Organic Chemistry.** Continuation of Chemistry 542. Prerequisite: 542. C

**547-3 to 6 Advanced Laboratory Preparations in Organic Chemistry.** Prerequisites: 446 and consent of instructor.

- 549-2 to 30 (2 to 6 per quarter) Advanced Topics in Organic Chemistry.** Specialized topics in organic chemistry. The topic to be covered is announced by the department. Prerequisite: 543. C
- 551-3 Advanced Biochemistry.** Proteins and nucleic acids. Three lecture hours per week. Prerequisite: 451c. C
- 552-3 Advanced Biochemistry.** Chemistry of simple sugars, oligosaccharides, and polysaccharides. Three lecture hours per week. Prerequisite: 451c. C
- 553-3 Advanced Biochemistry.** Plant biochemistry. Three lecture hours per week. Prerequisite: 451c. C
- 554-4 Biochemical Mechanisms.** Molecular transformations in biochemistry in terms of general mechanistic principles in chemistry. 3 lecture hours per week. Prerequisite: 451c. C
- 555-3 Enzymes.** Advanced enzyme chemistry. 3 lecture hours per week. Prerequisite: 451c. C
- 559-2 to 30 (2 to 6 per quarter) Advanced Topics in Biochemistry.** Selected topics such as enzymology and physical biochemistry. Prerequisite: 451c. C
- 561-3 Chemical Thermodynamics.** Basic methods and theories as applied to chemical problems. Lecture. Prerequisites: 461c and demonstrated capability. C
- 562-3 Atomic and Molecular Structure.** A survey of basic principles in atomic spectroscopy, quantum chemistry, and statistical thermodynamics. Lecture. Prerequisite: 561. C
- 563-3 Chemical Kinetics.** Factors determining the rates of chemical reactions. Lecture. Prerequisite: 562 or consent of instructor. C
- 569-2 to 30 (2 to 6 per quarter) Advanced Topics in Physical Chemistry.** Colloids, and macromolecules, quantum chemistry of atoms, diatomic molecules or polyatomic molecules, statistical mechanics and others. Prerequisite: 561. C
- 575-1 to 3 Graduate Seminar.** Advanced level talks presented and discussed by graduate students. Required for all graduate students. E
- 594-2 to 15 (2 to 6 per quarter) Special Readings in Chemistry.** Assigned library work in any of the five fields of chemistry with individual instruction by a staff member. (a) Analytical, (b) biochemistry, (c) inorganic, (d) organic, (e) physical. Prerequisites: 24 hours of 500-level chemistry and consent of chairman. C
- 595-0 to 9 Advanced Seminar in Chemistry.** Advanced level talks presented by graduate students; (a) analytical, (b) biochemistry, (c) inorganic, (d) organic, and (e) physical chemistry. Prerequisite: consent of chairman. C
- 596-3 to 9 Advanced Chemical Problems.** Individual study and investigation in preparation for research. Prerequisite: consent of chairman. C
- 597-3 to 15 Research and Thesis.** Prerequisite: consent of chairman. C
- 598-3 to 48 Research—Doctoral.** Prerequisite: consent of chairman. C
- 600-3 to 48 Dissertation—Doctoral.** Prerequisite: 598. C

## CLOTHING AND TEXTILES

- 423-4 Advanced Family Housing.** (See Home and Family 423.) C
- 431-4 Advanced Applied Design.** Research problems in experimentation with materials in textile design, linoleum block printing, stencilling, contemporary embroidery, silk-screen printing, etc. Prerequisite: 131 or consent of instructor. C
- 432-2 to 8 Workshop.** Designed to aid leaders in the field with current problems. Discussion, reports, lectures, and other methods of analyzing and working on solutions to problems. Prerequisite: consent of chairman. C
- 433-4 Advanced Pattern Designing.** Experimentation in the application of flat pattern design principles to the making of patterns for garments of various designs. Emphasis upon suitability of patterns for specific fabrics. Construction of garment as final step in experimentation. Prerequisite: 233 or consent of instructor. C
- 434-4 History of Costume.** The history of costume from prehistoric times to the present. Social, economic, and aesthetic developments that influenced its design. C
- 461-4 Problems in Fitting and Pattern Alterations.** Principles of fitting and pattern alterations as related to various figure types and special figure problems. Application made by fitting and constructing a garment. Prerequisites: 127 and 233, or equivalent. C



- 470-3 Interior Design Seminar.** A study and appraisalment of noted interiors and architecture as interpreted in selected buildings and by selected designers. Prerequisite: consent of instructor. C
- 473-4 Advanced Tailoring.** The student will tailor one garment for herself. Time-saving methods, high-quality construction details, and professional finishes stressed. Prerequisite: 360 or equivalent. Offered on demand. C
- 474-4 Advanced Textiles.** The physical and chemical analysis of textiles. Problems dealing with standards, labeling, and legislation. Current literature of developments in the field. Prerequisites: 322 and GSA 101c or consent of instructor. C
- 481-2 to 6 Readings.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman. C
- 528-4 Recent Developments in Clothing and Textiles.** Emphasis on the physical properties of the currently marketed fibers and fabrications. Interpretation of these in design and clothing construction. Prerequisites: 127 and 135, or consent of instructor. C
- 570-4 Clothing and Textiles Seminar.** Selected problems within the field of clothing and textiles. Offered on demand. C
- 571-4 Recent Research.** Review of selected research in various phases of home economics in related fields. Sources of research include colleges, universities, governmental, and industrial agencies. C
- 572-2 to 8 Special Problems.** For students recommended by their chairman and approved by the chairman of Clothing and Textiles, and the instructor in charge for independent work or directed study. C
- 582-4 Foundations of Fashion.** Anthropological approaches to fashion and socio-economic and psychological forces as determinants of fashion in modern times. Prerequisites: 329 and 339, or consent of instructor. C
- 599-5 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C
- 600-1 to 48 Dissertation.** Minimum of 36 hours for the Doctor of Philosophy degree. C

## DESIGN

- 400-0 to 2 Materials and Basic Techniques.** Same as 200 and 300. C
- 465f-5 to 15 Research in Product-Shelter Design.** Problems dealing with large groups. All problems carried from conception to actual full-scale construction. Development of prototype for mass-production techniques. Small research projects will be developed under grants given to the department. Prerequisite: 12 hours of 366 or its equivalent. C
- 465g-5 to 15 Research in Visual Design.** Problems dealing with room-to-eye scale and larger, i.e., posters, car cards, strip film, film, exhibitions, etc. Advanced graphic and photographic technology. Development of prototypes for mass-production techniques. Small research projects will be developed under grants given to the department. Prerequisite: 12 hours of 375 or its equivalent. C
- 490f-2 to 12 Studio in Product-Shelter Design.** Special projects developed with adjunct and visiting professors. C
- 490g-2 to 12 Studio in Visual Design.** Special projects developed with adjunct and visiting professors. C
- 520-4 to 10 Educational Tool Systems.** Designs of specialized instructional tools, including design of learning environments and ancillary support systems for programmed learning. C
- 530-4 to 12 Studies in the Industrial Process.** Design of products and product systems utilizing contemporary technology for solutions to significant human needs. C
- 535-4 to 12 Research in Product Design.** Studies of specialized needs or problem areas (i.e., equipment for the handicapped, needs of underdeveloped areas, etc.). C
- 540-4 to 12 Studies in Communications Design.** Concerned broadly with the over-all systems of human communications, including visual and graphic media. C
- 545-4 to 12 Research in Communications Design.** Specialized areas of visual and graphic communication extended through various technical systems. Development of related systems involving whole range of communications. C
- 550-2 to 16 Field Study in Design.** Design activity (local, national, or international)



carried out with a designated faculty member as liaison. Written report assigned and final report required. All projects must first have written approval by the chairman and the liaison faculty member. C

**560-4 to 12 Environmental Control.** Selected studies in environ control systems, with particular reference to latest technical advances (i.e., closed ecology and autonomous systems developments) and to contributions in the study of human environment control by other disciplines. C

**570-4 to 12 Design Science Exploration.** Procedural methodology and systems approach to comprehensive anticipatory design science. C

**575-4 World Ecological Studies.** Review and analysis of man's present socio-economic situation in terms of scientific and technological trending-material and energy resources, human ecology networks. C

**576-4 to 8 Structural Evolution.** Structural morphology and relational hierarchies in science and technology. Differentiation and evolution of industrial tool complex: analysis of world service industry networks. C

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

## ECONOMICS

**303-4 Introduction to Economics.** Survey of economic principles including national income, money and banking, fiscal policy, economic growth, prices, theory of the firm, labor, rent, interest, and profits. This course does not carry graduate credit. Restricted to Master of Business Administration studies.

**304-4 Introduction to Statistics.** A survey of statistics. Specifically, hypotheses testing and confidence interval determination. 3 hours lecture; 2 hours laboratory. Course does not carry graduate credit. Restricted to Master of Business Administration students.

**408-4 Economic and Business Statistics II.** Techniques for making decisions when the economic conditions are not known with certainty. 3 hours lecture; 2 hours laboratory. Prerequisite: 307 or GSD 110, or GSD 108c, or GSD 114c, or consent of instructor. C

**411-4 Collective Bargaining and Dispute Settlement.** Nature, issues, procedures, economic effects. Analysis of actual collective bargaining situations. Prerequisite: 310 or consent of instructor. C

**416-4 Money and Banking II.** Emphasis upon the Federal Reserve System and other banking systems. Prerequisite: 315 or consent of instructor (C); 300 (E).

**418-4 Economic History of Europe.** A survey of the economic growth of Europe with emphasis upon the development of European agriculture, industry, finance, and international trade since 1750. Prerequisite: 205 or GSB 211a, or consent of instructor. C

**419-4 Latin American Economic Development.** A survey of the resource base of Latin American economic development with special reference to the problems of transition from an export-import to an integrated industrial economy; monetary policies; problems of economic planning. Prerequisite: 205 or GSB 211a. C

**420-4 Recent Economic History of the United States.** Review and analysis of the chief characteristics, trends, and continuing problems of the economy of the United States in the 20th century. Prerequisites: 214, 215. C

**422-4 Introduction to Economic Development.** An analysis of the preconditions, processes, and problems involved in economic development. Both the theory and policy relevant to development, with special emphasis upon the "developing" or "emerging" economies, are stressed. Prerequisites: 214, 215. C

**429-4 International Economics.** Intensive treatment of the principles of international economics with special emphasis on the classical and modern theories of international trade. Income effects. Balance of payments adjustments. Prerequisites: 205 and 206, or 214 and 215, or consent of instructor (C); 200 and 201 (E).

**430-4 Regional Economy.** Natural economic regions, governmental action (as in the T.V.A.), local applications. Prerequisites: 205 and 206 or 214 and 215. C

**431-3 Public Finance II.** State and local. Prerequisite: 330 or consent of the instructor.

**432-3 Fiscal Policy of the United States.** Countercyclical, secular, and emergency use of government expenditures, debt, and taxes. Prerequisite: 210 or consent of instructor. E

**433-4 Inflation, Growth, and Stability.** National income theory with emphasis on (a) the influence of government budgetary programs on the level of national income, employment, growth, and the price level, and (b) the institutional difficulties of formulating and executing a Federal budget program. Prerequisite: 214 or consent of instructor. Note: A student may not receive credit for both 433 and 441. C

**436-3 Government and Labor.** (Same as Government 436.) A study of labor relations and legislation considering both constitutional and economic aspects. Prerequisite: 205 or 215 or GSB 211c or consent of instructor (C); 200 and 201 (E).

**440-4 Intermediate Micro Theory.** A more intensive treatment of price theory. Prerequisites: 205 and 206, or 215, or consent of instructor (C); 201 (E).

**441-4 Intermediate Macro Theory.** Basic analytical concepts of the modern theory of aggregate income determination. Prerequisites: 205 or 214 or consent of instructor. A student may not receive credit for both 441 and 443 (C); 200 (E).

**450-6 (3,3) History of Economic Thought.** A two-term sequence covering the development of economic theory. (a) Ancients to 1850; (b) 1850 to present. Must be taken in a,b sequence. Prerequisites: 205 and 206, or 214 and 215, or consent of instructor (C); 200 and 201 (E).

**460-4 Russian Economy.** Development of Russian trade, agriculture, industry, government, finance, and standards of living in successive periods in relation to the historical, geographic, economic, and ideological background. Prerequisite: 205, or GSB 211a, or consent of instructor. C

**461-4 Comparative Economic Development in Asia.** A comparison of the economics of Japan, India, and China within the framework of emerging economic theory of developing economies. Prerequisite: 205, or GSB 211a, or consent of instructor. C

**462-4 Economic Development of the Middle East.** Economic structure of the countries constituting the Middle East; economic, political, social and cultural forces influencing development. Prerequisites: 214, 215. C

**465-4 Mathematical Economics I.** A systematic survey of mathematical economic theory. Conditions of static equilibrium (including stability conditions), dynamic models using difference equations, and linear production models of input-output analysis and activity analysis (linear programming). Prerequisite: 440 and consent of instructor. C

**467-4 Econometrics I.** Introduction to resource allocation under uncertainty. Probabilistic economic models, theory of games and economic choices, and stochastic economic processes. Prerequisite: consent of instructor. C

**470-3 Business Cycles.** Major business fluctuations in the United States. Prices, employment, production, credit, inflation and deflation, and government action during the cycles. Prerequisite: 315. E

**471-4 Land Resource Economics.** (Same as Forestry 471 and Agricultural Industries 471.) The use of land as an economic variable in production of goods and services; land market; group versus individual conflicts; elementary land resources planning techniques. Prerequisite: 440, or 441, or Agricultural Industries 350, or Forestry 470. C

**472-4 Dynamic Economics: Fluctuations and Growth.** A study of the causal factors which produce fluctuations in economic activity and/or growth. An identification of the factors which affect the length of the cycle, its amplitude and the stability or instability of equilibrium. An examination of the theories and issues of economic growth. Prerequisite: 441 or consent of instructor. C

**473-4 Business Enterprise and Public Policy.** Some of the major problems of social control of business arising out of the operation of business in modern society; covering types of control, necessity and effects of controls. Prerequisite: senior standing. E

**481-4 Comparative Economic Systems.** Capitalism, socialism, fascism, and other forms of the economy. Prerequisite: 205, or 214 and 215, or consent of instructor.

**490-4 Workshop in Economic Education.** (Same as Education 490.) Designed to assist elementary and secondary school teachers in promoting economic understanding



in the minds of their students through the translation of economic principles and problems into classroom teaching materials. C

**500-4 to 8 Economics Seminar.** A study of a common, general topic in the field of economics, with individual reports on special topics. Prerequisite: 206 or 214 and 215, or consent of instructor (C); consent of instructor (E).

**501-1 to 5 Economics Readings.** Contemporary books and periodicals in economics. Prerequisite: consent of chairman. C

**502-1 to 6 Readings in Resource Economics.** (Same as Forestry 520b and Agricultural Industries 520b.) Directed readings in the field of resource economics. Prerequisite: consent of instructor. C

**512-4 Labor Economics.** Economic principles involved in the employment relationship. Such topics as wage theory, the labor market, employment and unemployment, and the economic effect of collective bargaining are covered. Prerequisite: 310, or 411, or consent of instructor.

**517-4 Monetary Theory and Policy.** Current monetary theory and policy emphasized. Federal Reserve policy is analyzed. Necessity for coordination of monetary policy with fiscal policy and debt management operations is discussed. Prerequisites: 315 and 441, or consent of instructor.

**519-4 Economic Growth.** Intensive examination of the problems (past and present) of economic development faced by nations everywhere. Attention to the alternative solutions which have been, or are being, attempted. Prerequisite: 317, or 418, or consent of instructor. E

**520-8 (4,4) Economic Development Theory and Policy.** A two-term course sequence as follows: (a) Classical, neoclassical, and modern contributions to the theory of development; theories of underdevelopment. (b) Basic approaches to economic development: laissez-faire; balanced growth; unbalanced growth; role of government; methods of planning; foreign aid. Prerequisites to 520a: 440 and 441. Prerequisite to 520b: 520a. C

**526-4 Managerial Economics.** (Same as Business Administration 526.) A course in the economics of the firm. Designed to develop a conceptual framework for business decision making with emphasis on demand, costs, prices, and profits. Prerequisites: 214 and 215, or 413, or consent of instructor. Credit may not be earned in both Economics 440 and this course.

**530-4 Foreign Trade and Finance.** Emphasis on the advanced theory of international trade and finance. Survey of significant literature in international theory. Study of more advanced tools of analysis. Prerequisite: 429 or consent of instructor. C

**531-4 Seminar in International Economics.** Application of theory to current international economic developments. Empirical studies. Foreign economic policy. Prerequisite: 530 or consent of instructor. C

**533-4 Public Finance Theory and Practice.** Historical development of public finance theories with analysis of their policy implications. Prerequisite: 330 or consent of instructor.

**541-4 National Income Theory.** Keynesian and post-Keynesian developments in national income theory. Empirical research concerned with characteristics and magnitudes of important national income concepts, such as the consumption function, is examined. Recent American policies and problems bearing on national income fluctuations are considered. Prerequisite: 441 or consent of instructor.

**542-4 Price Theory.** Designed to develop skills in the use of the analytical tools, including the basic mathematical techniques, used in price theory. Prerequisite: 440 or consent of instructor.

**543-4 Seminar in Economic Policy.** A consideration of departures in the American economy from the principle of resource allocation by the price system, and an attempt to develop principles of economic policy which could serve as guides in efforts to raise living standards and promote economic growth. Prerequisites: 440 and 441 or consent of instructor. C

**552-4 Seminar in Economic Thought.** An exploration of the basic philosophic assumptions which underlie the various types of economic thought with special emphasis upon the historical development of the premises of modern economic theories. Prerequisite: 450 and 451, or 450a,b, or consent of instructor. C



- 562-4 Seminar in Economic Systems.** A final, theoretically-oriented examination of economic systems. Includes recent theoretical models; contemporary changes in major economic systems; the emergence of mixed systems. Relates economic, social, and political systems and evaluates attempts to place economic systems within the context of general systems theory. Prerequisite: 481 or consent of instructor. C
- 566-4 Mathematical Economics II.** Linear economic models. Linear programming. Input-Output analysis and general equilibrium models. Prerequisite: 440 or 465, or consent of instructor. C
- 575-4 Economic Regulation.** An analysis of the economic causes and effects of the regulation of agriculture, business, and labor. Prerequisite: 440 or consent of instructor. C
- 581-4 Economics of Welfare.** The application of economic theory to the quest for economic welfare. Includes consideration of income distribution, rates of growth, the pricing system, and the role of government. Prerequisite: 440 or equivalent. C
- 582-0 to 4 Economic Behavior.** A theoretical and empirical study of the behavioral aspects of economics, including the behavior of firms, households, and government. This course draws upon the recent literature of economics and also, on frontier areas, upon directly relevant concepts and findings of related behavioral sciences. Prerequisite: 440 or equivalent or consent of instructor. C
- 583-4 Methodological Foundations of Economics.** A systematic analysis of the nature, philosophical content, premises, scope, boundaries, and characteristic methods of economics. The history of economic thought is drawn upon, but major focus is upon the contemporary state of the discipline as well as upon apparent methodological trends. Prerequisites: 440 and 441 or equivalent. C
- 599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C
- 600-3 to 48 Doctoral Dissertation.** Hours and credit to be arranged by chairman. C

## EDUCATIONAL ADMINISTRATION AND SUPERVISION

Students who wish to take the following courses on the Carbondale campus will need approval by the Department of Educational Administration and Supervision prior to Graduate Office program approval: 420, 424, 434, 456, 460, 500, 527, 533, 534a,b, 535, 539, 556.

- 420-4 Legal Basis of American Education.** Particular emphasis is placed on common law principles.
- 424-4 School Administration.** Designed primarily for those who look forward to positions as supervisors, principals, or superintendents. C
- 431-4 History of Education in the United States.** An historical study of the problems of American education which have relevance to contemporary education.
- 432-4 Public Opinion, Propaganda, and Education.** Analysis and classification of propaganda. Designed to show how public opinion is formed by a use of current materials from the different channels of communication. Differences between propaganda and indoctrination.
- 434-4 Administrator's Workshop.** A special program for the consideration of administrative problems pertinent to superintendents, high school principals, and elementary school principals.
- 456-4 School Supervision.** The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching.
- 460-4 Curriculum.** Modern practices and procedures in curriculum development with attention to the professional, social, economic, and other major factors in curriculum planning. C
- 485-4 to 9 Educational Utilization of Community Resources.** A workshop providing an opportunity for teachers to acquire a detailed knowledge of community resources, construct teaching units utilizing these resources and assemble files of resource materials dealing with economic and social problems of the community.
- 490-4 International Field Study in Comparative Education.** International field study of selected aspects of national systems of education examined in their social matrix.

By means of direct observations, conferences, lectures, and seminars, the advanced education student will be helped to gain a mature perspective on American education through comparison and contrast with educational systems of other societies critically to evaluate American educational patterns in light of observed alternatives, and to develop fresh curricular approaches in the area of international understandings through an examination of other cultural patterns. With the permission of the instructor this course may be repeated with credit. E

**500-4 Research Methods.** Introduction to educational research with practical training in research writing techniques and evaluation in education.

**501-12 (4,4,4) (C); 501-4 (E) Seminar in Educational Administration.** The interdisciplinary approach to the study of the theory of educational administration. Open to students in approved sixth year and doctoral programs only.

**502-4 Seminar in Comparative Education.** Educational ideas and practices of various countries of the world, both Eastern and Western, and their impact upon our culture and education.

**502s-4 Seminar in Comparative Education: Soviet Russia.** A study of Soviet education in historical, cultural, political, philosophical, and world perspective. Emphasis is on education in Communist morality and the creation of the "New Soviet Man." Includes a consideration of the challenge to American education and the issue of the study of Communism in our schools. C

**503-4 Seminar in Philosophy of Education.** An interpretation of modern educational problems and trends in the light of basic philosophical viewpoints. Excerpts from leading writings will be used. Prerequisite: 554 or equivalent.

**504-4 Seminar in History of European Education.** A survey and interpretation of education in Europe from the Greek era to the present. Stresses the relationship of European to American education.

**506-4 Seminar: Curriculum in Relation to American Culture.** The effect of historical movements on curriculum in our nation at all ages and grade levels continued on a more intensive basis as applied to present-day curricular patterns. Prerequisite: 460 or consent of instructor.

**507-12 (4,4,4) The Twentieth Century and Education.** Major movements in the contemporary world are studied in terms of their importance for American education. C

**508-8 (4,4) Interdisciplinary Seminar in Educational Administration.** Covers basic topics in fields related to Educational Administration. Prerequisite: consent of instructor. C

**511-12 (4,4,4) Internship Practicum.** The study of theory and practice in school administration pursued simultaneously by the student in cooperation with a public school and the Department. Prerequisite: consent of the department advisory committee.

**512-3 Workshop in Adult Education.** For teachers and administrators in adult education programs. Problems related to the adult learner, program planning, and methods and materials. Prerequisite: consent of instructor. C

**520-4 Illinois School Law.** Study of the legal aspects of Illinois public education with principal emphasis on statutory law and its interpretation by the courts. Prerequisite: 420.

**524-4 School Administration.** Designed primarily for those who look forward to positions as supervisors, principals, or superintendents. E

**525-4 Personnel Administration.** E

**527-4 to 6 Administrative Problems of Small Schools.** A field laboratory course for principals and superintendents. C

**533-4 School Buildings.** Various phases of physical plant design and maintenance of concern to the school administrator.

**534a-4 School Finance.** A study of the principles and issues of Public School Finance. Revenues, expenditures, indebtedness, and fiscal controls are dealt with.

**534b-4 School Business Administration.** Principles and practices governing management of business affairs of a public school system.

**535-4 Research in Problems of School Administration.** An intensive course for school principals on the theory and principles of administration. C

**539-4 Community Development Through the School.** Comprehensive survey of the



resources of a particular community: the cataloguing of material for the use by the teachers of the community to help determine needed curriculum changes. C

**554-4 Contrasting Philosophies of Education.** Deals both historically and contemporaneously with the ideologies which have developed from different concepts of education. Prerequisite: 355 or Philosophy 355 or equivalent.

**556-4 Seminar in Educational Supervision.** Special research problems in supervision for advanced graduate students.

**560-4 Curriculum.** Modern practices and procedures in curriculum development, with attention to the professional, social, economic, and other major factors, in curriculum planning. E

**563-4 Workshop in School Public Relations.** To meet the needs of teachers, supervisors, and administrators, in the area of public relations. Prerequisite: consent of instructor.

**565-4 The Junior College.** E

**575-1 to 4 Individual Research.** Selection, investigation, and writing of a research assignment under the personal supervision of a graduate faculty member in one of the following areas: (a) curriculum, (b) supervision, (c) buildings, (d) finance, (e) school law, (f) comparative education; (g) history of education, (h) philosophy of education, (j) administration, (k) elementary education. Prerequisite: 500, approval of department adviser and consent of instructor.

**576-1 to 4 Readings in Administration and Supervision.** Open only to advanced graduate students. Prerequisite: 501a. C

**589-2 to 12 General Graduate Seminar.** (Same as Philosophy 589). For students having special interests in the history of philosophy and the original systematic development of philosophic ideas. Prerequisite: consent of instructor. C

**591-2 Seminar in Social and Philosophical Foundations.** Concurrent with Guidance 590 as part of sequence required of all students who are beginning advanced graduate study for the Doctor of Philosophy degree in education. Prerequisite: advanced standing. C

**592-4 Doctoral Seminar In Cultural Foundations of Education.** An integrated seminar in the cultural foundations of education for doctoral students in education. Prerequisite: 591. C

**596-5 to 9 Independent Investigation.** Field study required of each student working for the sixth-year specialist certificate.

**597-1 to 3, 598-1 to 3, 599-1 to 3. Thesis.** Minimum of 5 hours to be counted toward the master's degree.

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## ELEMENTARY EDUCATION

**401-2 Problems in Public School Reading.** Requirements: attendance at all sessions of a reading conference, preparation of a paper showing practical applications of theory to the student's own teaching situation. Summer. C

**402-4 Aero-Space Education Workshop.** (See Secondary Education 402.) C

**410-4 Improvement of Instruction in Arithmetic in Kindergarten-Primary Grades.** Recent findings and current practices in building a basis for quantitative thinking in early childhood education. Special emphasis upon grade placement of content and of techniques to aid children in understanding of the number system. Prerequisite: Mathematics 210. C

**411-4 Seminar in Instruction.** To assist student teachers and in-service teachers in solving classroom problems. Involves clinical study and discussion of behavioral and learning situations, with special attention to the development of characteristics and needs of students. C

**413-4 Children's Literature.** Emphasizes types of literature, analysis of literary qualities, selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Guidance 305.

**415-2 to 4 Improvement of Instruction in Arithmetic in the Elementary School.** Items to be taught, the grade placement of content, newer instructional practices and



materials of instruction, and means of evaluating achievement. Prerequisite: Mathematics 210 or consent of instructor.

**430-3 Workshop in Creative Writing in the Elementary School.** Techniques of encouraging creative writing in the elementary school. C

**431-2 to 4 Education for the Disadvantaged Child.** An understanding of culturally disadvantaged children with emphasis on the nonurban poor. Discussion of necessary adjustments of school programs emphasizing early school admission, experimental background, self-concept, language development, and learning style. C

**433-4 Workshop in Elementary Education.** Meets needs of in-service teachers in such areas as curriculum adjustment, remedial teaching, child development, and early childhood education. No credit if student has had 333 or 390. C

**435-4 to 8 Workshop in Elementary School Foreign Language Instruction.** Designed to assist elementary school teachers in integrating foreign languages into their teaching program, as well as to encourage high school teachers to introduce or supervise foreign languages in education. Prerequisite: basic language credit. C

**437-4 Problems in Reading.** Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisites: senior standing, 337. Not open to students who have had 505. C

**441-4 Teaching Elementary Science.** Brief review of aims and methods. Emphasis upon selection and use of curriculum materials including new curricular developments, planning for teaching and learning, and evaluation. C

**442-4 Science for the Elementary Teacher.** Study of content and methods of elementary school science.

**443-4 Workshop in Social Studies.** Material on critical areas of the world not commonly emphasized in elementary social studies. Areas considered: significant geographical concepts, Asia, Africa, Russia, and Eastern Europe. Outstanding specialists in social science present their specialties. C

**465-4 Seminar in Psychology of Elementary School Subjects.** Psychological principles of learning applied to the mastery of materials used in elementary school subjects. Prerequisites: 314, Guidance 305. C

**490-2 to 3 Workshop in Economic Education in Elementary Schools.** A study of newer programs stressing economic understandings of the social studies in the elementary school. C

**505-4 Improvement of Reading Instruction.** First course in the reading sequence. Survey of reading problems, aspects of the reading process, modern practices in teaching reading.

**507-2 to 4 Readings in Reading.** Independent reading; acquaintanceship with the literature and research in reading. Conference periods. Prerequisite: 505 and consent of instructor.

**509-4 to 8 Practicum in Reading.** For advanced students; teaching demonstrations and evaluations. Each student works with a group of reading disability cases. Prerequisites: 521a,b, and c, and consent of instructor.

**510-4 to 8 Seminar: Problems in Reading.** Major field content seminar: Problems and practices; comprehensive review and evaluation of research and literature. Each student pursues a problem of his own interest. C

**514-4 Organization and Administration of Reading Programs.** For reading specialists, principals, supervisors, consultants. Recent trends in elementary and high school reading programs, providing reading instruction for total school population, materials and equipment, in-service training, role of the reading specialist. Problems of class members are studied and discussed. Prerequisites: 461 and 505 (C); 561 (E).

**515-4 Special Problems in the Teaching of Arithmetic in the Elementary School.** A seminar course which covers important problems in arithmetic in the elementary school. Variable content. Prerequisite: 415 or consent of instructor.

**516-8 to 12 Internship in Reading.** Culminating experience for doctoral candidates. Each student supervises reading services in his own or cooperating school. Conference periods. Prerequisites: 521a,b, and c and consent of instructor. C

**517-2 to 4 Kindergarten-Primary Practicum.** Practical applications of advanced theory in the Laboratory School. Readings and research related to special problems in the kindergarten-primary classroom. Prerequisite: 8 hours of student teaching. C

**518-2 (C); 518-2 to 4 (E) Supervision of Student Teachers.** The function of the supervisory teacher in the student teacher situation. Particular attention to the problem of student teaching in the public schools. A course for present and prospective teachers who wish to be more effective in dealing with student teachers.

**519-2 to 4 Readings in Research—Elementary Mathematics.** Independent readings. Acquaintance with the research literature in elementary mathematics. Conference periods. Prerequisites: 415, 515. C

**520-4 Diagnosis and Correction of Elementary Mathematics Disabilities.** Causes of mathematical difficulties, observation and instrument procedures, experience in preparing materials for diagnosis and for corrective purposes. Prerequisite: 515 or concurrent registration. C

**521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.** Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisites: 505, or concurrent registration with 505, and teaching experience.

**525-4 Kindergarten-Primary Seminar.** Exploration of research literature on problems in early childhood education. Each student to select problem or problems and to present paper to the seminar. Prerequisite: Educational Administration 500 or equivalent. C

**537-4 Kindergarten-Primary Reading.** A survey of problems in the developmental reading program for the primary grades, followed by extensive study of selected problems. Prerequisite: 337 or consent of instructor. C

**541-4 Problems in Elementary School Science.** Emphasis upon identifying and planning for the solution of problems related to the science curriculum, and problems in the classroom concerning teaching and learning. Prerequisites: 441, or 442, and Educational Administration 500.

**542-3 to 4 (C); 542-4 (E) Language Arts in the Elementary School.** The practical bearing of investigation and theory on the improvement of current practices in the teaching of the language arts other than reading. Attention given to evaluation of teaching materials in these areas.

**543-4 Teaching the Social Studies in the Elementary School.** Organization of material for teaching purposes, techniques of classroom presentation, bibliographies or materials, use of audio and visual aids to instruction, and techniques for evaluating student progress. Readings, lectures, and discussions related to required teaching experience.

**557-4 The Elementary Principalship.** Designed to meet many of the particular needs of persons interested in qualifying for appointments as elementary school principals. Other than the administrative responsibilities of the elementary principal, such topics as the grouping of pupils, the elementary school's program, and personnel are studied.

**558-3 to 4 Leadership in Elementary Education.** A study of some newer developments in the organization and instruction of the elementary school. Team teaching, a non-graded school, grouping and the impact of newer curricular developments. C

**559-4 Workshop in Instructional Leadership (C); 559-4 Workshop in Instructional Leadership in Elementary Education (E).**

**560-4 Kindergarten-Primary Education.** A survey of current problems and practices in early childhood education for children from four to eight years of age, with emphasis on wide reading in current research literature. Prerequisite: consent of instructor. C

**561-4 The Elementary School Curriculum.** A critical study of the reorganization, construction, and administration of the elementary school curriculum, and the installation, adaptation, and administration of the revised curriculum.

**563-4 Organization of the Elementary School.** An analysis of types of elementary school organization with special attention to influence of school organization upon the educational program. Application of research findings to selection and use of materials of instruction. Special consideration to student's professional problems. C

**570-2 to 4 Seminar, Research in Elementary Education.** Critical analysis of the most significant research studies in organization, learning, teaching, and curriculum in the elementary education. C



**575-2 to 4 Individual Research.** The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: (a) curriculum, (b) supervision, (c) language arts, (d) science, (e) reading, (f) social studies, (g) problems in elementary education, (h) arithmetic, (j) problems in kindergarten-primary, (k) elementary education administration and supervision.

**596-5 to 9 Independent Investigation.** Field study required of each student working for the sixth year specialist certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study involves selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

**597-1 to 3; 598-1 to 3; 599-1 to 3 Thesis.** Minimum of 5 hours to be counted toward a master's degree. E

**599-3 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

**600-1 to 48 Dissertation.** Minimum of 36 hours for the Doctor of Philosophy degree. C

## ENGINEERING

**401-9 (3,3,3) Principles of Propulsion.** (a) The basic principles of propulsion dynamics. (b) The thermodynamics of fluid flow and application to propulsion engines. (c) An extensive treatment of the technological problems in the design of propulsion systems. Must be taken in a,b,c sequence. Prerequisite: 300a,b,c. C

**405-6 (3,3) Generalized Radiation.** E

**406-3 Statistical Mechanics.** Introductory subject for graduate engineering students. Classical mechanics of systems of particles and motion in phase space. Quantum mechanical concepts and energy of microscopic systems. Most probable distribution. Determination of thermodynamic properties of gases, crystals, black body radiation field. Fluctuation theory. Application to plasmas, thermionics, masers, cryogenics. Prerequisites: 300c, Mathematics 305b. C

**412-9 (3,3,3) Engineering Practice.** (a) Written communication encountered in engineering organizations: correspondence, memoranda, technical papers, specifications, and reports. Lectures, conferences, and frequent written assignments are adapted to the individual needs of each student. (b) The law of contracts with enough emphasis on legal procedure to enable students to understand decided cases. If possible, the study of the legal material will be followed by practice in applying some of the principles. (c) Research methods and design of experiments. Prerequisite: 361. C

**413-6 (3,3) Intermediate Mechanics of Fluids.** (a) Application of the basic laws of nature to the theory of fluids using the continuum approach. Kinematics of fluid motion using various coordinate systems. Dynamics of viscous fluid motion with some solutions to the fundamental system of equations. (b) Vorticity, stream functions and the velocity potential. Incompressible irrotational flow. The compressible flow equations and an introduction to the theory of homogeneous turbulence. Must be taken in a,b sequence. Prerequisites: 313a,b, Mathematics 305a. C

**415-9 (3,3,3) Principles of Water Quality Control.** (a) Characteristics of water quality, both natural and man-made; relationship of quality to use; unit operations of water quality control for municipal and industrial use. (b) Characteristics of waste waters; fundamental concepts of biological and chemical processes for the treatment of sewage and industrial wastes; water quality criteria in stream pollution control. (c) Application of physical, chemical and biological unit operations and unit processes to the functional design of treatment facilities for water, sewage and industrial wastes. Prerequisite: consent of instructor. Must be taken in a,b,c sequence. C

**420-9 (3,3,3) Transport Phenomena.** (a) Mechanism of heat, mass and momentum transport on both molecular and continuum basis. Estimation of transport properties. Generalized equations of transport in one or three dimensional system. (b) Interphase transport in isothermal and nonisothermal systems. Unsteady state transport problems in multicomponent systems. Mechanism ratio analysis. Analogy of mass, heat, and momentum transfer. (c) Macroscopic balances, diffusion operations, penetration theory, simultaneous mass and heat transfer, equilibrium operations. Prerequisite: Mathematics 252b.



**422-4 Operations Research and Mathematical Model Formulation.** Applications of digital computers to the mathematical modelling of physical systems with particular emphasis on the simulation and problem solving techniques of operations research. A critical study of "the scientific method" and its implications as an aid to the conduct of scientific research. Dynamic models of transportation, allocation, and replacement. Physical applications and computation techniques related to the theory of games. Introduction to "real-time" techniques. Prerequisites: 222 and GSD 114c or consent of instructor. C

**423-3 Hybrid Computation.** The simultaneous use of the analog and the digital computer for the solution of engineering problems. Scaling of problems. Block diagrams and logic are stressed. Linear and nonlinear differential equations. Simulation as well as iterative analog computation are covered. Prerequisite: Engineering 222 or Mathematics 225.

**425-2 to 8 Practicum in Technology.** Experiences in the industrial applications of technological knowledge. Cooperative arrangements with selected corporations and professional organizations provide opportunity to study technical problems in the industrial environment under the direction of specialists. Prerequisite: 12 hours in technical subjects. C

**430-2 to 8 Special Problems in Industry and Technology.** Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of instructor. C

**435-9 (3,3,3) Electronics.** (a) An introduction to electronics for all students of engineering. A foundation for more advanced studies in electronics. (b,c) Electron tube theory, amplifiers, modulation, vacuum tube and transistor circuits. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 331a,b,c.

**439-6 (3,3) Transient Analysis.** A study of electrical and mechanical networks by means of the Laplace Transform. Theoretical vibration problems in the real and complex time domain as they apply to engineering will be discussed. Prerequisites: 331a,b,c, Mathematics 305b. C

**441-3 Intermediate Mechanics of Vibrations.** Equations of motion applied to systems with free and forced vibrations, damping, multiple-degrees of freedom, Euler's equations, introduction to Lagrange's equations, introduction to orbital mechanics. Prerequisites: 260a,b,c, Mathematics 305a. C

**443-9 (3,3,3) Engineering Design.** Projects of a research design or development nature. The student will select a problem, develop the theory for a solution, check the theory experimentally, analyze the data, and compare the results. The project can be from one to three quarters in length. Laboratory. Must be taken in a,b,c sequence. Prerequisites: 300, 311, 331a,b,c. C

**445-12 (4,4,4) Structural Design.** (a,b) General principles of structural design. Loads. Factors of safety, economics and preliminary planning of structures. Theoretical, experimental, and practical bases for design of structural steel members and connections. Behavior of the completed structure as a unit. Prerequisites: 311a,b,c, 344a. (c) An introduction to the design of reinforced concrete structures. Behavior of beams, columns, and frames. Ultimate strength and working stress methods. Prestressed concrete. Prerequisites: 311a,b,c, 344a. C

**446-9 (3,3,3) Mechanical Energy Conversion.** (a) Modern power plant cycles, pumps, fans, fuels, steam generator boiler auxiliaries, and heat exchangers. (b) A detailed study of the design and operation of steam turbines. (c) The theory and design of gas turbines and jet engines. Must be taken in a,b,c sequence. Prerequisites: 300a,b,c, 311a,b,c. C

**450-4 Fundamentals of Reactive Systems.** Chemical processes, stoichiometry, properties of gases, solution chemistry, modern techniques of analysis, surface chemistry. Non-ideal systems, rates and mechanisms of industrial processes. Instrumentation and process control. Laboratory. Prerequisites: Chemistry 111b,c and one year of calculus, or consent of instructor. C

**460-8 (4,4) Engineering Analysis for Decision Making.** (a) Introduction to fundamental concepts and theorems of engineering analysis with emphasis on the theory of linear, dynamic, and integer programming. Network analysis, inventory theory, simplex and revised simplex method, and dual theorem. Prerequisites: Mathematics 252b, 361 or consent of instructor. (b) Introduction to advanced linear program-

ming, nonlinear, probabilistic, and stochastic programming. Prerequisites: 460a, 370 or consent of instructor.

**461-6 (3,3) Energy Methods in Elasticity.** (a) Energy concepts in mechanics. Beam and rods. Trusses. Redundancy. Bents. Castigliano's principle. (b) Method of calculus of variations. Buckling theory. Elementary vibrations. Hamilton's principle. Equations of Lagrange and Hamilton. Prerequisites: 260a,b,c, 311a. C

**462-6 (3,3) Matrix Methods in Structural Analysis.** (a) Introduction to matrix algebra. Matrix force method. Stiffness matrix method. Matrix displacement method. Computer analysis of trusses and frames. Moment distribution. (b) Introduction to undamped and damped vibrations. State and transfer matrices in vibration analysis. Miscellaneous applications. Prerequisites: 260a,b,c, 311a. C

**463-8 (4,4) Advanced Structural Analysis.** (a) Slope deflection. Moment distribution for prismatic and non-prismatic members. Qualitative and quantitative influence lines. Numerical and approximate methods of analysis. (b) Plastic analysis of structures. Methods of limit analysis for beams and frames. Displacements, general loading, and axial forces. Beams under combined stresses. Prerequisites: 311a,b,c, 344a. C

**502-9 (3,3,3) Advanced Heat Transfer.** (a) The treatment of heat transfer problems involving distributed heat sources in laminar and turbulent shear flow. (b) Discussion of boundary layer temperature distributions in system with and without heat sources. (c) Discussions of analogies used in convective heat transfer. May be taken in a,b,c or b,a,c sequence. Prerequisite: consent of instructor. C

**503-9 (3,3,3) Heating and Cooling Systems.** (a) The applications of heating and cooling to engineering systems. (b) The design of various systems, including automatic controls. (c) A study of research methods and new concepts in cooling devices. May be taken in any sequence. C

**510-9 (3,3,3) Electromagnetic Fields.** Static boundary value problems; conformal transformation; Schwarz-Christoffel transformation; harmonics; application of Maxwell's equations to plane waves in dielectrics and conductors, antennas, and radiation. Prerequisite: consent of instructor. C

**511-6 (3,3) Quantum Electronics.** An introduction to quantum theory with applications taken from the field of electronics. A study of plasmas, fusion, atomic structure, superconductivity from a theoretical engineering view. Prerequisite: consent of instructor. C

**512-8 (4,4) Continuum Mechanics.** (a) Definition of a tensor. Tensor algebra, special tensors, tensor derivatives, differential geometry, kinematics and dynamics. Tensor quantities in continuum mechanics, stress, strain. (b) Measures of stress and strain. Equations of equilibrium, constitutive equations, compatibility equations. Strain energy functions, linear theory of classical elasticity, special examples, stress functions and general four-function method. Prerequisite: Mathematics 305b. C

**513-9 (3,3,3) Fluid Mechanics.** (a) Mechanics of viscous fluids. The complete system of equations for laminar flow of a viscous fluid using the continuum approach, the stress and rates-of-deformation tensors, exact solutions to various boundary value problems, creeping motion, boundary layer theory, introduction to hydrodynamic stability, Orr-Sommerfeld equations, statistical theories of turbulence. Prerequisite: 413a. (b) Mechanics of inviscid fluids. A study of stream functions, the velocity potential, Euler equations, Bernoulli equations, various solutions to Laplace's equation, added masses, Taylor theorem, Blasius and Kármán theorems, two-dimensional irrotational flows, Cauchy-Riemann equations, conformal mapping, vortex flow, thin airfoil theory, and free-streamline flows. Prerequisite: 413a,b or consent of instructor. (c) Wave motion in fluids. A study of surface waves in liquids, group velocity and dispersion, shallow water waves, wave makers, sound waves, the method of characteristics, waves in a gas of variable density, shock waves, waves in a rotating fluid. Prerequisite: 413a,b or consent of instructor. C

**516-4 Water Resources Development.** Seminar on engineering problems and economic factors relating to multiple-purpose water resources development. Planning of design features of components for system performance. The integrated use of water from all sources: ground and surface water, waste water, and saline water. Modern trends of large-scale land reclamation, hydropower, tidal power, and pump-storage schemes. C



**517-12 (4,4,4) Analysis and Design of Engineering Systems.** (a) Application of general system concepts to wide range of physical and engineering processes. Emphasis on variable flow of matter, energy, entropy, and information directed toward predicting performance for specified designs. Introduction of central theme of functional reticulation into multiported elements. Systematic study of relations and interactions in terms of logical operations, transformations, matrices, ordinary and partial differential equations, signal flow graphs, block and bond diagrams, analogies, and computing systems. Lectures and problem work cover electrical, mechanical, fluid, thermal, chemical, nuclear and biological systems. (c) Emphasis on the synthesis and design of systems assembled from multiported primitives to accomplish specific tasks and functions. Particular attention given to the use of analog and digital computers as electronic models for studying alternative designs and modes of operation. Lectures and problems dealing with stochastic processes and variables in both frequency and time domains, and with stationary and nonstationary parameters. Substantial portion of time allotted to original studies on a team basis using available electronic computers. (c) Advanced engineering systems designs. Prerequisites: 300, 311, Mathematics 305b. C

**520-9 (3,3,3) Reaction Engineering and Rate Processes.** (a) Chemical kinetics of homogeneous and heterogeneous reactions. Kinetic theories, mechanism and mathematical modeling. Interpretation of kinetic data. (b) Introduction of reactor design. Ideal reactors for batch and flow system. Design for multiple reactions. Temperature and pressure effects. Nonisothermal and nonadiabatic processes. (c) Nonideal flow, mathematical models of mixing. Fluids-solids reactions, optimum design and dynamic programming, scaleup factors. Laboratory. Prerequisite: 420. C

**522-3 Advanced Topics in Operations Research.** Linear programming computational techniques and their applicability to particular operations research models. Topics include the approximation methods, forecasting and optimization techniques, constrained and bounded problems. Problem solution by use of a digital computer is emphasized. Prerequisite: 422. C

**530-6 (3,3) Separation Processes and Equilibrium Operations.** (a) Phase equilibrium, multistage calculations in concurrent and counter-current operations, graphical methods, unsteady state stagewise operations. (b) Multicomponent systems, solution chemistry, nonideality in phase equilibrium, rate separation processes, applications in processing industry. Prerequisite: consent of instructor. C

**561-6 (3,3) Advanced Vibrations.** (a) Emphasis on nonlinear vibrations. Topics to include phase plane, nonlinear conservative systems, problem of rotating pendulum limit cycles of Poincaré, van der Pol equation, method of isoclines. (b) Liapounov stability criteria, bifurcation theory, perturbation methods, almost periodic oscillations, asymptotic methods for autonomous and nonautonomous systems. Prerequisite: Engineering 461, Mathematics 305a,b. C

**570-2 to 6 Special Investigations.** (Same as Applied Science 570.) C

**580-1 to 9 Seminar.** (Same as Applied Science 580.) C

**599-1 to 9 Thesis.** C

## ENGINEERING TECHNOLOGY

**400-9 (3,3,3) Plastics Technology.** (a) Uses of plastic materials including laboratory research and techniques using various methods of fabrication and processing of plastic materials. (b) Properties of high polymers, stability, testing, rheology, mechanical, electrical, thermal, optical, chemical properties, speciality uses. (c) Plastics as materials of construction and their uses in industrial applications, laminates, engineering properties of rubbers, foams, adhesives and surface coatings, designing with plastics; plastics in electrical applications. C

**425-2 to 8 Practicum in Technology.** (Same as Applied Science 425.) C

**426-9 (3,3,3) Photogrammetry.** (a) Principles and practice of terrestrial and aerial photogrammetric mapping, including planning flights, control surveys, uncontrolled mosaics, radial-line control, simple stereoplotters instruments, parallel distortions, graphical tilt determination, trimetrogon charting, and economics. (b) An advanced study of photogrammetric principles including controlled mosaics, rectification, graphi-



cal, mechanical, and analytical space orientation. Readings and reports from current technical literature. The principles of many photogrammetric plotters are studied together with economic relation of these instruments to density of field control, office methods, and personnel. (c) A study of the soil and rock areas of the United States and the patterns present in aerial photographs. Fundamental elements of soil patterns are analyzed to permit determination of materials present and their properties. Emphasis is placed on photo interpretation for engineering and regional planning purposes. Laboratory. Prerequisite: 363a or consent of instructor. C

**430-2 to 8 Special Problems in Industry and Technology.** (Same as Applied Science 430.) C

**437-9 (3,3,3) Industrial Electronics and Communications.** (a) Design of matching networks, impedance-admittance locus diagrams, transmission line equations, transmission line charts, stub matching. (b) Electromagnetic fields in rectangular and circular wave guides, microwave techniques, antennas. (c) Unified treatment of various types of transmission systems with emphasis on the role of system bandwidth and noise in limiting the transmission of information. Prerequisite: 303. C

**465-8 (4,4) Industrial Safety** (same as Industrial Education 465). (a) Basic fundamental principles of industrial accident prevention; significant accident statistics and costs; appraising safety performances, industrial plant hazards and safeguards; fire control fundamentals. (b) Effective industrial safety organizations, management and supervision; industry safety psychology; safety training programs; industrial hygiene programs; health safeguards; occupational diseases and other industrial hazards. C

**506-2 to 12 Industrial Design Research.** Individual research in industrial design. Prerequisite: 9 hours in industrial design or comparable experience in industry. C

**507-4 Industrial Quality Control.** Study of quality control charts, techniques, procedures and methods. Theories of measurements, error, predictions, sampling, tests of significance, replacement models, and inventory servicing. C

**526-9 (3,3,3) Surveying and Photogrammetry.** (a) Advanced engineering measurements. Measurement systems; analysis of errors and error propagation; adjustment of condition measurements by the method of least squares and other methods. Prerequisite: consent of instructor. (b) Geodesy. Study of the effect of curvature of the earth on surveying methods and calculations; figure of the earth; isostasy; magnetic properties of the earth; satellite geodesy; precise methods of surveying and leveling. (c) Land surveying and map projections. The theory of map projections; state coordinate systems; United States Public Land Systems; legal aspects of property boundaries; modern subdivision methods. Prerequisite: consent of instructor. C

**527-9 (3,3,3) Transportation and Highway Engineering.** (a) Traffic engineering. City and highway traffic surveys and designs. Accidents, congestion, delay, speed, volume, density, parking, channelization, lighting, traffic control, and routing. Signs, signals, and markings. Urban traffic consideration in city planning. Driver habit patterns and reactions. (b) Airport design. Problems encountered in planning, design, construction and maintenance of large airports. (c) Advanced Highway Engineering. Highway planning and economics, geometric design, bituminous materials. Soil stabilization. Prerequisite: consent of instructor. C

**540-8 (4,4) Design of Man-Machine Systems and Analysis of Production.** The mathematical modeling of man-machine systems, optimizing of control mechanisms and of output, economic analysis for product choice, use of linear programming and queuing procedures in product forecast analysis. C

**570-2 to 6 Special Investigations.** (Same as Applied Science 570.) C

**580-1 to 9 Seminar.** (Same as Applied Science 580.) C

**599-1 to 9 Thesis.**

## ENGLISH

**400-4 Introduction to English Linguistics.** An introduction to the methods of descriptive linguistics as applied to English: the phonemics, morphemics, and syntax of English. Recommended for those preparing to teach English.

**402-4 Old English Literature in Translation.** A study of prose selections from Bede, Aelfric, and other writers, and of poetry from the simplest riddles and gnomic verses

to the complex forms of the Caedmonian and Cynewulfian schools, the elegaic poems, and **Beowulf**. Emphasis is on the literary and cultural significance of works studied.

C

**403-4 History of the English Language.** A survey of the development of the language from Indo-European to modern English with special emphasis on Middle and Early Modern English changes.

**404-12 (4,4,4) (C); 404-8 (4,4) (E) Middle English Literature.** (a) Middle English literature excluding Chaucer; (b) Chaucer: early poems and **Troilus**; (c) Chaucer: **Canterbury Tales**. May be taken singly.

**405-8 (4,4) Descriptive Linguistics.** (a) Phonetics and phonemics, an analysis of language structure from phone to phoneme; (b) morphology and syntax, an analysis of language structure from morph to sentence. May be taken singly. Prerequisite: consent of instructor.

**412-16 (4,4,4,4) (C); 412-12 (4,4,4) (E) English Nondramatic Literature.** (a) 16th century, (b) 17th century, (c) The Augustan Age, 1660-1744, (d) The Age of Johnson, 1744-1798 (C). May be taken singly.

**418-4 English Literature, 1885-1914.** Poetry, drama and fiction of the later Victorian and early modern period.

C

**420-8 (4,4) American Poetry.** (a) Trends in American poetry to 1900 with a critical analysis of the achievement of the important poets, (b) the important poets since 1900. May be taken singly.

**421-16 (4,4,4,4) English Poetry.** (a) Early Romantics: major emphasis on general background and on Blake, Coleridge, and Wordsworth; (b) later Romantics: emphasis on Byron, Shelley, and Keats, the minor figures; (c) Victorian poets: Tennyson, Browning, Arnold, and other poets of England, 1830-1900; (d) modern British poets. May be taken singly.

**431-12 (4,4,4) Major American Writers.** Significant writers of fiction and non-fictional prose from the Puritans to the 20th century: (a) 1620-1800, (b) 1800-1865, (c) 1865-1915. May be taken singly.

**438-4 Intellectual Backgrounds of American Literature.** The relationship of basic ideas in America to American literature.

**441-4 The Eighteenth Century Essay.**

E

**442-4 Romantic Prose.** Fiction of Austen Scott, Mary Shelley, Peacock, the Gothic novelists; prose of Lamb, Landor, Hazlitt, DeQuincey; criticism, journals and letters.

C

**443-4 Victorian Prose.** The chief writers of nonfictional prose from the late Romantics to 1880.

**447-4 American Humor and Satire.** A consideration of the writers and forms of 19th and 20th century humor.

**454-12 (4,4,4) English Fiction.** (a) 18th century: Defoe through Jane Austen, (b) Victorian novel: 1830-1880, (c) 20th century. May be taken singly.

**456-4 Modern Continental Fiction.** Selected major works of European authors such as Mann, Silone, Camus, Kafka, Malraux, Hesse.

**458-8 (4,4) American Fiction.** (a) The novel in America from its beginning to the early 20th century, (b) trends and techniques in the American novel and short story since 1914. May be taken singly.

**460-16 (4,4,4,4) British Drama.** (a) Elizabethan drama: from the beginning of the drama in late Middle Ages through its flowering in such Elizabethan playwrights as Greene, Peele, Kyd, Marlowe, Heywood, Dekker, but excluding Shakespeare; (b) Jacobean drama: the Jacobean and Caroline playwrights: Jonson, Webster, Marston, Middleton, Beaumont and Fletcher, Massinger, Ford, Shirley; (c) Restoration and 18th century drama: after 1660, representative types of plays from Dryden to Sheridan; (d) Modern British drama. May be taken singly.

**464-4 Modern Continental Drama.** The continental drama of Europe since 1870; representative plays of Scandinavia, Russia, Germany, France, Italy, Spain, and Portugal.

**468-4 American Drama.** The rise of the theater in America; with readings of plays, chiefly modern.

**471-8 (4,4) Shakespeare.** (a) The plays before 1600. (b) The plays of 1600 and



later. Readings on the life of Shakespeare, the theater, and the acting companies. May be taken singly.

**473-4 Milton.** Reading of *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, minor poems, major treatises.

**485-4 Problems in the Teaching of English.** Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.

**486-2 to 8 Workshop in High School English.** Intensive study in lectures, laboratory, and conferences, on the teaching of English in high school. Curriculum, materials, methods, aims.

**487-2 to 8 Workshop in Junior High School English.** Intensive workshop study in lectures, laboratory, conferences on the teaching of English in junior high school. Curriculum, materials, methods, and aims. Directed by competent authorities in the field.

**488-9 (3,3,3) Methods of Teaching English as a Foreign Language.** E

**492-8 (4,4) Professional Writing II.**

**494-4 Literature in Society.** An analysis of the structure and function of literature as a social institution.

**495-8 (4,4) Literary Criticism.** (a) History of criticism: ideas and techniques from Aristotle to the end of the 19th century, (b) modern criticism: recent critics and critical attitudes, and practice in writing criticism.

**497-12 (4,4,4) Senior Honors Seminars.** (a,b) Topics will vary yearly. (c) Honors readings. Enrollment restricted to undergraduates. Departmental approval required.

C

**499-2 to 6 Readings in English.** For English majors only. Departmental approval required. No more than four hours may be taken in any one quarter.

**500-2 Materials and Methods of Research in English.** The principal tools of literary scholarship and the more important studies and journals. Practice in the preparation of selective bibliographies and scholarly reports.

**501-4 Old English Grammar.** The development of the forms, the grammar, and readings.

**502-4 Beowulf.** Readings of the poem and study of its form, language, and history. Prerequisite: 501.

**504-4 Advanced English Syntax.** A study of generative grammars. Prerequisite: consent of instructor.

**505-4 Contrastive Linguistic Structures.** A comparison of the structure of English with the structure of other languages. Prerequisite: consent of instructor.

C

**506-3 Old Norse.**

**508-4 to 12 (C); 508-4 to 8 (E) Studies in Chaucer.**

**509-4 to 12 (C); 509-4 to 8 (E) Studies in Middle English Literature.**

**511-4 to 12 (C); 511-4 to 8 (E) Studies in the Renaissance.**

**513-4 to 12 (C); 513-4 to 8 (E) Studies in 17th Century Literature.**

**514-4 to 12 (C); 514-4 to 8 (E) Studies in Restoration and 18th Century Literature.**

**518-4 to 12 Studies in English Literature, 1885-1914.**

C

**519-4 to 12 (C); 519-4 to 8 (E) Studies in Contemporary British Literature.**

**520-4 to 12 (C); 520-4 to 8 (E) Studies in Romantic Writers.**

**521-4 to 12 (C); 521-4 to 8 (E) Studies in Victorian Poetry.**

**524-4 to 12 (C); 524-4 to 8 (E) Studies in the Metaphysical Poets.**

**531-4 to 8 Studies in American Colonial Period.**

E

**532-4 to 12 (C); 532-4 to 8 (E) Studies in American Transcendentalism.**

**534-4 to 12 (C); 534-4 to 8 (E) Studies in Early 19th Century American Writers.**

**536-4 to 12 (C); 536-4 to 8 (E) Studies in Later 19th Century American Writers.**

**537-4 to 12 (C); 537-4 to 8 (E) Studies in 20th Century American Writers.**

**538-4 to 12 (C); 538-4 to 8 (E) Problems in American Literature.**

**540-4 Studies in Linguistics (Historical & Dialectal).** Characteristics of regional vocabulary and usage in the United States, and in their relationships to dialectal features of British English; synchronic and diachronic descriptions of American English. Prerequisite: consent of instructor.

E

**543-4 to 12 (C); 543-4 to 8 (E) Studies in Victorian Nonfiction Prose.**

**555-4 to 12 (C); 555-4 to 8 (E) Studies in the Victorian Novel.**

**560-4 to 12 (C); 560-4 to 8 (E) Studies in Renaissance Drama.**



566-4 to 12 (C); 566-4 to 8 (E) **Studies in Shakespeare.**

569-4 **Seminar in Special Problems of English as a Foreign Language.** Independent study in preparing and testing of instructional materials for the teaching of English as a foreign language. Restricted to English as a Foreign Language students.

579-4 to 16 (C); 579-16 (4,4,4,4) (E) **Studies in Modern Literature.**

580-4 **Traditional Themes.** Persistent themes and legends in literature—King Arthur, Faust, Utopia, and the like.

581-12 (4,4,4) **Problems in High School English.** (a) Composition. (b) Linguistics. (c) Literature.

585-2 (C); 585-2 to 8 (E) **Teaching College Composition.** Objectives, methods, and materials for the course; observation; and practice under supervision.

588-9 (3,3,3) **Methods of Teaching English as a Foreign Language.** (a) Classroom techniques, (b) laboratory methods, (c) preparation of materials. Restricted to English as a Foreign Language students and must be taken in a,b,c sequence. C

594-8 (4,4) **Studies in Literary Form and Symbolic Action.** C

597-2 to 4 **Readings in Linguistics.** Individual readings in linguistics under the guidance of a staff member.

598-1 to 6 (1 to 3, 1 to 3) **Review of English and American Literature.** 598-1 to 9 **Independent Review of English and American Literature (E).** Restricted to master's degree students.

599-2 to 9 **Thesis.** E

600-1 to 48 **Dissertation.** C

## FINANCE

421-4 **Management of Business Finance.** The principal problems of managing the financial operation of an enterprise. Emphasis upon analysis and solutions of problems pertaining to policy decisions. Prerequisite: 320. C

422-4 **Advanced Financial Management.** The development of ability to use sophisticated analytical tools by the discussion of case situations dealing primarily with capitalization, return on investment, and cost of capital. Prerequisite: 421. C

428-4 **Life Insurance.** Particular attention given to policy forms and provisions, reserve and investment problems, company organization, legal aspects, taxation, and personal and business needs. Prerequisite: 327. C

430-4 **Business Finance.** An introductory course combining both a description of the structure of business financing and an analysis of functional finance from a managerial viewpoint.

473-4 **Business in its Legal Environment.** Social and economic assessment of environmental factors influencing business policies and strategies. Emphasis is placed on legislation affecting competition and allocation of the firm's products and resources. Prerequisite: senior standing. C

475-4 **Budgeting and Systems.** Budgeting and system as aids in coordinating and directing business operation. C

## FOOD AND NUTRITION

420-3 **Recent Developments in Nutrition.** Critical study of current scientific literature in nutrition. Prerequisite: 320 or equivalent. Offered alternate years.

421-3 **Recent Trends in Food.** Critical study of current scientific literature in food. Prerequisite: 320 or equivalent. Offered alternate years.

481-2 to 4 **Readings.** Supervised readings for qualified students. Prerequisites: 320 or consent of instructor and department chairman. C

490-3 **Nutrition and Growth.** Lectures, readings, and discussion on nutrition in relation to human growth. Prerequisite: 420 or equivalent. Offered alternate years. C

500-4 **Research Methods.** Study of methods employed in research in food and nutrition. The development of a research design selected on the basis of the interest and need of the student. Field trip. Prerequisites: 420, 421, or equivalent and statistics. Offered alternate years. C

515-1 to 6 **Seminar.** Participation of staff and students in reporting and discussing research papers, research in progress, and current professional meetings. Required for

all graduate majors in Food and Nutrition, one credit per quarter. Prerequisite: 420 or 421.

**520-3 Advanced Nutrition.** The biochemical and physiological basis of the metabolism of nutrients; current concepts. Prerequisite: 420 or equivalent. Offered alternate years.

**556-4 Advanced Experimental Foods.** Individual problems in food research and interpretation of pertinent literature. Prerequisite: 500. Offered alternate years.

**572-2 to 8 Special Problems.** For students recommended by their adviser and approved by the head of the department and the instructor in charge for independent work in directed study. C

**599-5 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. Registration with approval of instructor. C

## FOREIGN LANGUAGES

The following courses do not fall within the normal pattern of courses leading to advanced degrees:

**161-0 French for Graduate Students.** C

**161-0 German for Graduate Students.** C

**161-0 Russian for Graduate Students.** C

**161-0 Spanish for Graduate Students.** C

The purpose of these courses is to help graduate students prepare for proficiency examination as requested by the Graduate School for the Doctor of Philosophy degree. No prerequisite. Students must register for these courses and are advised to take them as part of, and not in addition to, their graduate program.

**435-4 to 8 Workshop in Elementary School Foreign Language Instruction.** Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages at the elementary school level. To count as education or foreign languages. Prerequisite: basic language credit.

**486-8 (4,4) Materials and Methods for Teaching Foreign Languages.** Application of language learning principles to classroom procedures at different levels. Theory and practice of the audio-lingual approach, the language laboratory, and applied linguistics. Required for all majors intending to teach foreign languages. Prerequisite: one quarter of any 300-level course or consent of instructor. E

### FRENCH

**400-4 French Literature Between 1870 and 1914.** A survey of naturalism and the subsequent reactions to naturalism, chiefly in the drama and novel. Prerequisite: 310c. C

**401-9 (3,3,3) French Literature of the 17th Century.** (a) Tragedy: Corneille and Racine. (b) Comedy: Moliere. (c) Non-dramatic Literature. C

**403-9 (3,3,3) French Literature of the 18th Century.** (a) Theater. (b) Novel. (c) Philosophic and Didactic Literature. C

**405-3 French Contemporary Novel.** A study of the novel from 1900 to the mid-20th century with detailed attention to Proust and Gide. C

**406-3 French Poetry from 1850 to 1900.** The Parnassian and Symbolist Movements in French poetry. C

**407-3 French Poetry Since 1900.** C

**451-6 (2,2,2) Seminar.** Integration of the specialized major courses and the development of a comprehensive view of the major field in terms of its relationship to the growth of Western Civilization. Required of all French senior majors. E

**461-4 French Stylistics.** Study of writing style in French and its application to the development of skill in written expression. For those who wish to do advanced work in the principles of French grammar and composition. Prerequisite: 9 hours of 300-level courses or consent of instructor. E

**500-2 Seminar in Contemporary French Literature.** A study of the *nouveau roman* and anti-theater from 1950 to the present.

**501-2 to 6 Seminar on a Selected French Author.** Intensive study of one author. May be taken a maximum of 3 times. C



- 502-3 French Literature from La Chanson de Roland to Rabelais. C  
 503-3 Rabelais and Montaigne. C  
 504-3 La Pléiade. The development of lyric poetry in the Renaissance. C  
 507-3 A Study of Romanticism in France. C  
 510-4 French Literature 1850-1900. A study of the Parnassian School of Poetry, of realism and its ultimate development into naturalism in the drama and the novel. C  
 511-3 20th Century French Drama. C  
 515-6 (3,3) Old French. (a) Intensive reading and interpretation of the *Chanson de Roland*. (b) Reading of various Medieval works with linguistic analysis. Prerequisite: 410 or equivalent. C  
 520-4 Graduate Composition and Diction. Composition based on study of contemporary French authors; individual work in pronunciation and diction determined by entrance tests. C  
 543-2 to 6 Research Problems. Individual research on a literary or linguistic problem involving original investigation in areas not covered by seminars or thesis. C  
 544-6 French Language and Culture. Daily lecture in French on selected aspects of French culture, followed by daily classes in the development of audio-lingual skills through cultural content, followed in turn by daily classes in reading and writing. Prerequisite: the bachelor's degree with emphasis in foreign languages. E  
 545-3 Applied Linguistics and Remedial Phonetics. Fundamentals of linguistics with particular reference to their application to classroom procedures in the teaching of French, plus the analysis and correction of individual pronunciation difficulties. Prerequisite: the bachelor's degree with emphasis in foreign languages. E  
 546-3 Professional Preparation. Principles and practice of teaching foreign languages. Analysis of current trends and methods. Effective use of modern materials and techniques in the foreign language classroom. Visual aids, the language laboratory, textbooks, testing, organization of foreign language courses on various levels. Prerequisite: the bachelor's degree with emphasis in foreign languages. E  
 599-2 to 9 Thesis. Minimum of 5 hours to be counted toward a master's degree. C

#### GERMAN

- 401-4 (2,2) Goethe's Faust. (a) The Faust legend and early Faust books and plays; the genesis of Goethe's Faust: reading of Part I. (b) Reading of Part II; study of the symbolism used such as the blending of paganism with Christianity and ancient Greek culture with Germanic culture. Must be taken in a,b sequence. C  
 401-4 Faust. Analysis of both parts of Goethe's masterpiece, its background, meaning, and impact on world literature together with a general survey of the life and times of the author. Prerequisite: 201, one quarter of 220. E  
 402-3 Advanced German Syntax. Descriptive and contrastive study of German syntax, with particular attention to the needs of prospective teachers. C  
 403-3 German Ballads and Lyrics. A selective study of the foremost examples of German balladry and lyric poetry, ranging from the poetry of Klopstock and Bürger to that of Hesse, Benn, etc. Lectures, recitations. C  
 404-4 Weimar and Its Aftermath. German writings from the inception of the Weimar Republic to the end of World War II, with special reference to the correlation existing between literary expression and social, economic, and political conditions. C  
 406-3 The German Comedy. Comic and satirical works in German Literature, with special emphasis on the "Lustspiel" since 1800; lectures, reports. C  
 407-2 Great German Plays of the 20th Century. Study and selective readings of outstanding stage successes; lectures, reports. C  
 408-4 German Civilization. Intensive study of the German speaking areas of the world, with emphasis on the anthropological and sociological aspects of their respective cultures (Austrian, German, Swiss, "Reichs-deutsch," etc.); lectures, reports. C  
 411-6 (3,3) Middle High German. (a) Grammar, and selective readings in both MHG originals and NHG translations of such epics as the Nibelungenlied and Gudrun. (b) The courtly epic poetry of such authors as Wolfram von Eschenbach, Gottfried von Strassburg, Hartmann von Aue, the lyric poetry of Walther von der Vogelweide, and didactic prose. C



- 413-6 (3,3) German Linguistics.** (a) Introduction to Comparative German Linguistics tracing relationships among German languages on the basis of phonology, morphology, and syntax. (b) History of the German language: a survey of the development of German through the Old, Middle, and High German periods; lectures, readings, reports. C
- 497-1 to 2 Readings in 18th Century German Literature.** Departmental approval required. C
- 498-1 to 2 Readings in 19th Century German Literature.** Departmental approval required. C
- 499-1 to 2 Readings in 20th Century German Literature.** Departmental approval required. C
- 500-2 Seminar in Contemporary Literature.** Intensive study of the works of representative German authors, with special reference to the correlation existing between literary expression and social, economic, and political conditions since 1900. Lectures, outside readings, reports. C
- 501-2 Seminar on a Selected German Author.** Intensive study of one author—his life, his work, and his place in the literary and cultural development of civilization. Lectures, outside readings, reports. C
- 506-2 Romanticism I.** Study of the forerunners of German Romanticism: Hölderlin, Jean Paul; and the authors of Early Romanticism: the writers of the so-called "Berlin School," with special attention to their involvement and reaction to 18th century thought. Lectures, reports. C
- 507-2 Romanticism II.** Study of Patriotic Romanticism: Kleist, Arndt, Körner, Uhland, etc., and Late Romanticism: Eichendorff, Lenau, Grillparzer, Heine, Morike, etc. Lectures, reports. C
- 509-4 (2,2) Old High German.** (a) Phonology, morphology, etymology, and syntax. (b) Continued study of grammar and reading of Franconian, Bavarian, and Alemannic texts. C
- 512-3 19th Century German Novel.** German literature from the decline of Romanticism to the end of the century. A study of trends and representative works of such authors as Keller, Fontane, Raabe, etc. Lectures, reports. C
- 513-3 20th Century German Novel.** Continuation of 512. Study of representative writers of expressionism, "Neue Sachlichkeit," etc. Lectures, reports. C
- 514-3 Seminar in Folklore.** Study of German folk literature, with emphasis on folk tales (such as Grimms' Household Tales, regional sagas, etc.), chapbooks (such as Dr. Faust, Till Eulenspiegel, etc.), folksongs (Des Knaben Wunderhorn), and folk drama. Lectures, reports. C
- 533-3 Gothic.** Historical setting and significance of Gothic; phonology, morphology and syntax; selected readings from Wulfila. C
- 543-2 to 6 Research Problems.** Individual research on a literary or linguistic problem involving original investigation in areas not covered by seminars or thesis. C
- 544-12 NDEA Summer Institute for Teachers.** Summer Institute for Teachers of German, conducted in West Germany. C
- 591-2 to 6 Seminar on Kant.** A selective study of the works of Immanuel Kant, with special emphasis on the influence exerted by Kantian philosophy on subsequent German literature. Course counted on a major in philosophy, subject to the consent of the Department of Philosophy. Lectures, outside readings, reports. C
- 599-2 to 9 Thesis.** C

## RUSSIAN

- 401-8 (4,4) The Russian Novel in the Nineteenth Century.** Should be taken in a,b sequence. C
- 411-8 (4,4) Introduction to Russian Classical Literature.** Gogol, Pushkin, Turgenev, Tolstoy. Should be taken in a,b sequence. C
- 413-4 Russian Drama in the Nineteenth Century.** Griboyedov, Gogol, Pushkin, and minor dramatists. C
- 414-3 Russian Poetry from Zhukovsky to 1920.** A study of Russian Poetry from Sentimentalism through Symbolism. C
- 425-3 Soviet Literature.** A study of satirists and writers of everyday life. Constructivism and followers; Soviet literary criticism. Lectures, readings, and reports. C

- 452-4 Advanced Composition and Conversation.** Oral and written composition of a practical nature for advanced students; emphasis on study of idiomatic expressions and current usage. C
- 500-2 Seminar in Contemporary Russian Literature.** Intensive study of the works of representative Russian authors, with special reference to the correlation existing between literary expression and social, economic, and political conditions since the Revolution. Lectures, outside readings, reports. C
- 501-2 Seminar on a Selected Russian Author.** Intensive study of one author, his life, his work, and his place in the literary and cultural development of civilization. C
- 503-2 Seminar on 19th Century Russian Literature.** Intensive study of the modern Russian novel as an expression of social and cultural movements. Outside readings and class discussions. C
- 509-3 Russian Literature Through the 17th Century.** A study of early Russian literature with emphasis on literature of the Kievan period. Analysis of texts and reports. C
- 510-3 Russian Literature of the 18th Century.** The Baroque period, classicism and sentimentalism. Emphasis on the classical period of the 18th century. Analysis of texts and reports. C
- 514-6 (2,2,2) History of the Russian Language.** A survey of the phonological, morphological, and syntactical changes from the period of the common Slavic to the present Russian literary language. C
- 520-4 Russian Linguistic Structure.** A structural analysis of present-day Russian with special attention to Russian syntax. Free composition on Russian authors. C
- 543-2 to 6 Research Problems.** Individual research on a literary or linguistic problem involving original investigation in areas not covered by seminars or thesis. C
- 599-2 to 9 Thesis.** C

SPANISH (Iberian)

- 401-3 Spanish Novel of the 19th Century.** Study of representative novels of Fernán Caballero, Valera, Pereda, Galdós, etc. C
- 402-3 Spanish Drama of the 18th and 19th Centuries.** Reading of representative plays of the chief dramatists from Moratín to the Generation of 1898. C
- 403-3 Spanish Poetry.** General survey of Spanish poetry from its beginnings to 1900. C
- 404-6 (3,3) Spanish Literature of the Twentieth Century.** (a) The Generation of 1898. (b) Contemporary Novel and Essay. Main trends of the Spanish novel and essay since 1900. C
- 415-3 Spanish Phonetics.** Analysis of the sounds of Spanish and their manner of production; intonation; levels of speech; oral practice. C
- 440-6 (3,3) The Golden Age: Drama.** Plays of Lope de Vega, Calderón, Tirso de Molina, Ruiz de Alarcón, and others. C
- 445-4 Cervantes.** Don Quixote; Other works assigned as collateral readings. C
- 461-4 Spanish Stylistics.** Study of writing style in Spanish and its application to the development of skill in written expression. For those who wish to do advanced work in the principles of Spanish grammar and composition. Prerequisite: 9 hours of 300-level courses. E
- 501-2 Seminar on a Selected Spanish Author.** Study of one author—his life, his works, and his relationships to the literary and social currents of his time. C
- 505-3 The Picaresque Novel.** Study of the *Lazarillo*, with collateral readings of other masterpieces of this genre. C
- 506-3 The Renaissance.** Literature of the Renaissance in Spain, including the drama, the novel, the lyric poetry, and the histories of the Indies. C
- 515-6 (3,3) Old Spanish.** (a) Intensive reading and interpretation of the *Poema de Mio Cid*. (b) Reading of various medieval works with linguistic analysis. Prerequisite: 410 or equivalent. C
- 520-3 Seminar in Syntax.** Stylistics and grammatical analysis. C
- 525-3 The Spanish Ballads.** The romance studied as a part of the literature and folklore of Spain and the New World. C
- 543-2 to 6 Research Problems.** Individual research on a literary or linguistic problem involving original investigation in areas not covered by seminars or thesis. C



**560-4 Spanish and Latin American Bibliography.** Bibliography and research methods in Spanish and Spanish American culture. Introduction to the use of the chief reference works in the humanities and social sciences as they deal with Spain and Spanish America. C

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

#### SPANISH (American)

**421-3 Survey of Modernism in Spanish American Poetry.** Study of its origins, characteristics and achievements. C

**422-3 Contemporary Spanish American Poetry.** Spanish American poetry since modernism. C

**423-3 to 4 The Mexican Novel of the 20th Century.** Emphasis on fiction dealing with the Revolution and related social problems. C

**424-3 to 4 Gaucho Literature.** Study of the Gaucho as a social class and of the types of literature developed to portray and symbolize his way of life, attitudes and values. C

**426-3 The Mexican Short Story.** Survey of the Mexican short story from pre-Conquest to the present. C

**427-3 Spanish American Drama.** Study of representative works of Florencio Sánchez, Rodolfo Usigli, Armando Mooock, Samuel Eichelbaum, Xavier Villarrutia, and others. C

**451-6 (2,2,2) Seminar.** Integration of the specialized major courses and the development of a comprehensive view of the major field in terms of its relationship to the growth of Western Civilization. E

**478-4 Seminar in Latin American Thought.** (See Philosophy 478.) C

**500-2 Seminar in Latin American Fiction.** The works of a specific novelist or group of novels on a similar theme studied as a reflection of social and cultural conditions in a country or geographical area. C

**535-3 Mexican Essayists of the 19th Century.** Currents of Mexican thought in the 19th century. C

**538-3 Seminar on Spanish American Poetry.** Study of the works of a single poet, of a group of poets or of literary trends or movements such as *creacionismo*, *ultraísmo*, etc. C

**541-3 Seminar on Spanish American Literary Criticism.** Significant documents of literary criticism from Independence to the present. C

**543-2 to 6 Research Problems.** (See Spanish—Iberian.) C

**560-4 Spanish and Latin American Bibliography.** (See Spanish-Iberian.)

**599-2 to 9 Thesis.** C

#### ROMANCE PHILOLOGY

**410-4 Romance Philology I.** Survey of phonology, morphology, and syntax changes in Romance languages in general; special attention to the developments in French and Spanish for majors in these fields. C

**514-4 Romance Philology II.** Studies in syntax of Old French and Old Spanish. Prerequisite: 410 or equivalent. C

**516-4 Arthurian Romance.** Readings in the Arthurian Romances of the student's major interest (French or Spanish) with reference to the genre as a whole. Prerequisite: 410 or equivalent. C

#### FORESTRY

**401-3 Advanced Forest Mensuration.** Theory and practical problems in biometrics to obtain estimates of forest populations. Use of computers and other advanced techniques. Prerequisite: 363a,b or equivalent. C

**410-3 Forest Management for Wildlife.** Interrelations between forest practices and game. Forest protection from mammals and birds. Emphasis is on treatment of the forest. Prerequisite: Zoology 463, forestry major, or consent of instructor. C

**427-3 Mineral Nutrition of Plants.** C

**440-4 Ecology of Grasses and Grasslands.** (Same as Botany 440.) Structure, anal-



ysis and dynamics of grassland communities; structure and growth of individual species. Prerequisite: GSA 340 or consent of instructor. C

**450-4 Forest Park Management.** Fundamentals in the management and administration of parks and recreation areas, at the metropolitan state and federal level. Includes purpose, objectives, criteria for selection, policy, management practices, and problems in providing outdoor recreation in a natural environment. Prerequisites: 350a,b or consent of instructor. C

**451-7 (3,4) Forest Park Plans.** Fundamental and applied principles and elements involved in site, master, and comprehensive planning for outdoor recreation at the state, metropolitan, and federal level. Prerequisites: 350a,b or consent of instructor. C

**464-4 Advanced Silviculture.** Analysis and measurement of site quality; stand density; growth as related to site factors and competition; factors affecting reproduction; and the tree as a variable. Prerequisites: 365a,b. C

**465-2 Forestry Field Studies.** An extended trip to study forest conditions and silviculture in different forest regions of the United States. Cost shared by students. Prerequisites: 330, 363a, 365a. C

**466-3 Forest Watershed Management.** Effects of treatment of forested watersheds on quality and quantity of water yield. Consideration of alternative in water use and flood control. Prerequisites: 301, GSA 330, or consent of instructor. C

**470-8 (4,4) Economics of Forestry.** (a) Introduction to forest economics; forestry production and investment. Prerequisite: GSB 211a. (b) Forestry marketing, macroeconomics and planning. Prerequisite: 470a or consent of instructor. C

**471-4 Land Resource Economics.** (Same as Agricultural Industries 471 and Economics 471.) The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resources planning techniques. Prerequisite: 470a or Economics 440 or Agricultural Industries 350. C

**476-3 Cases in Forest Management.** A series of case studies analyzing governmental and industrial forest management plans and the objectives of forest management by top level management. C

**520a 1-6 Readings in Forestry or Forest Recreation.** Intensive consideration is given to current practices and problems in forestry. Prerequisite: consent of instructor. C

**520b 1-6 Readings in Resource Economics.** (Same as Economics 502 or Agricultural Industries 520b.) Directed readings in the field of resource economics. Prerequisites: consent of instructor and 375 or equivalent. C

**520c 1-6 Readings in Forest Products or Wood Science.** Advanced study of the techniques of manufacture in the wood and fiber using industries. Also, advanced study of physical, mechanical and chemical properties of wood as a material. Prerequisite: consent of instructor. C

**570-3 Principles of Research.** Research philosophy, approaches to research; theory, hypotheses, inference and prediction; problem identification, project development and organization; methods of data collection, analysis and presentation; drawing conclusions and organizing results. Prerequisite: 4 hours in statistical methods or consent of instructor. C

**575-1 to 6 Research.** Directed research in selected fields of forestry. C

**581-1 to 6 Advanced Forestry Seminar.** Study and discussion of contemporary forestry problems. Prerequisite: consent of instructor. C

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

## GEOGRAPHY

**400-3 Geographic Methods.** Designed to introduce the geographic methods of integrating physical, economic, and cultural elements in the study of areas with the emphasis placed on problem situations. Cartographic and quantitative techniques will be emphasized. Prerequisites: GSB 101a, 302, 304, 306. C

**402-10 (4,3,3) Advanced Physical Geography I.** Deals with one or more of the following land forms, climate, soil, and water; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis, and at developing

concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or consent of instructor.

**403-7 (4,3) Advanced Physical Geography II.** Content drawn from same broad range of topics as 402. To be alternated with 402 to enable student to specialize further in physical geography. Prerequisite: 302 or consent of instructor.

**404-10 (4,3,3) Advanced Economic Geography I.** Deals with one or more of the following: transportation, manufacturing, agriculture, resources, trade and urban geography; depending on, and varying with, interests of instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or consent of instructor.

**405-7 (4,3) Advanced Economic Geography II.** Content drawn from same broad range of topics as 404. To be alternated with 404 to enable student to specialize further in economic geography. Prerequisite: 302 or consent of instructor.

**406-10 (4,3,3) (C); 406-7 (4,3) (E) Advanced Cultural Geography I.** Deals with one or more of the following: population, settlement, ethnic characteristics, political factors; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 306.

**407-7 (4,3) Advanced Cultural Geography II.** Content drawn from same broad range of topics as 406. To be alternated with 406 to enable student to specialize further in cultural geography. Prerequisite: 302 or consent of instructor.

**410-8 (4,4) (C); 410-6 (3,3) (E) Advanced Geographic Techniques.** Geographic applications of cartographic and quantitative research techniques. Prerequisite: 310 or consent of instructor.

**416-8 (4,4) Cartography.** Instruction and practice in the techniques of map-making and problems in map reproduction. Laboratory. Prerequisite: 310.

**417-3 Air Photo Interpretation.** Techniques in the use of air photos as source material for research in physical and social sciences. Prerequisite: 310. E

**424-2 to 12 (C); 424-4 (E) Regional Problems in Conservation.** The distribution, use, and interrelationship of the resources of the U.S. and the conservation techniques applied to them.

**426-12 (4,4,4) Photogrammetry.** (Same as Engineering Technology 426.) E

**440-2 to 6 Reading for Majors.** Supervised readings in selected subjects. Prerequisite: advanced standing. C

**450-3 to 15 Travel Study Course.** Enrichment through travel, supervised study, and readings on areas visited. E

**461-7 (4,3) Regional Geography: Anglo-America (C); 461-7 (4,3) Advanced Regional Geography: Anglo-American (E).** Deals geographically with present-day United States and Canada. (a) A general survey of the area, open to non-majors. (b) Investigates specific topics in depth, for majors.

**462-7 (4,3) Advanced Regional Geography: Europe.** See 461.

**463-7 (4,3) Advanced Regional Geography: Mediterranean Lands and Southwestern Asia.** See 461.

**464-7 (4,3) Advanced Regional Geography: Soviet World.** See 461.

**465-7 (4,3) Advanced Regional Geography: Sub-Saharan Africa.** See 461 (C); **465-7 (4,3) Advanced Regional Geography: Africa.** See 461 (E).

**466-7 (4,3) Advanced Regional Geography: Eastern and Southern Asia.** See 461 (C);

**466-7 (4,3) Advanced Regional Geography: Asia.** See 461 (E).

**467-7 (4,3) Advanced Regional Geography: Latin America.** See 461.

**468-7 (4,3) Advanced Regional Geography: Oceania.** See 461.

**470-12 (4,4,4) Urban Planning.** (Same as Government 470.) (a) Planning concepts and methods. (b) Planning administration and the planning function in public process. (c) Field problems. C

**470-16 to 20 Urban Planning.** (Same as Government 470.) (a) Planning concepts and methods. (b) Planning administration and the planning function in public process. (c) Field problems. (d) Planning and public administration internship. E



- 471-8 (4,4) Regional Planning (C).** Examination of the viewpoint, methods, and techniques of regional planning. Prerequisite: consent of instructor. **471-3 to 6 Regional Planning (E).** Area and regional development, theory, and practices.
- 475-4 to 8 Methods of Field Geography.** Application of geographic field techniques. E
- 480-4 Workshop in the Teaching of Geography.** Gives the geographic approach to man in space. Skills and techniques in the use of maps, globes, pictures, statistics and graphics, and reading the landscape and literature will be acquired. C
- 490-1 to 16 (C); 490-6 (2,2,2, 1 to 4) (E) Tutorial in Geography.** Individual and small group conferences with staff members to examine geographic concepts. Prerequisite: Institute status.
- 500-4 Geographic Techniques I.** Emphasizes field and quantitative techniques used in geography.
- 501-4 Geographic Techniques II.** Emphasizes the conceptual framework of geography, library and bibliographic techniques, and geographic writing.
- 505-8 (2,2,2,2) Pro-Seminar in Geography.** Discussion of basic issues and development of professional perspective in (a) Physical, (b) Economic, (c) Cultural, (d) Geographic Thought. Taught by the entire resident staff. C
- 511-4 Philosophy of Geography.** The nature of geography. Current trends in the field, present-day geographers, and schools of thought. Geography's place among the disciplines.
- 514-2 Teaching of College Geography.** C
- 515-4 to 6 Field Course.** Designed to give actual experience in the field. Under guidance of staff members students will gather data and work toward the solution of selected field problems in one particular region of the world. This course will not be offered on campus, but will be in a field camp location suited to the study of selected problems. Prerequisite: consent of instructor. C
- 520-2 to 12 (C); 520-2 to 8 (E) Seminar in Physical Geography.**
- 521-2 to 12 (C); 521-2 to 18 (E) Seminar in Economic Geography.**
- 522-2 to 12 Seminar in Regional Geography.**
- 523-4 to 12 (C); 523-4 (E) Seminar in Cartography.**
- 524-2 to 8 Seminar in Cultural Geography.**
- 527-2 to 8 Seminar in Urban and Regional Planning.**
- 530-2 to 10 Independent Studies in Geography.**
- 540a-2 to 36 (C); 540a-2 to 12 (E) Research in Physical Geography.**
- 540b-2 to 36 (C); 540b-2 to 12 (E) Research in Economic Geography.**
- 540c-2 to 36 (C); 540c-2 to 12 (E) Research in Regional Geography.**
- 540d-2 to 36 (C); 540d-2 to 12 Research in Cultural Geography.**
- 599-9 (C); 599-2 to 9 (E) Thesis.** Minimum of 5 hours to be counted toward a master's degree.
- 600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## GEOLOGY

- 410-4 Stratigraphy and Sedimentation.** The characteristic features of sedimentary rocks and their processes of origin; the classification of stratigraphic units, methods of correlation, and paleogeologic reconstruction. Laboratory. Prerequisites: 220, 221. C
- 414-5 Paleobotany.** (See Botany 414.) C
- 415-4 Optical Mineralogy.** The optical properties of minerals and the use of the petrographic microscope for identification of crystals by the immersion method and by thin section. Laboratory. Prerequisites: 310, Physics 208. C
- 416-4 X-Ray Crystallography.** Introduction to the study, measurement, and identification of unknown crystalline materials by X-ray diffraction techniques (especially the Debye-Scherrer methods). Upon request, non-geology majors may work with unknowns from their own fields of study. Prerequisites: 310, Mathematics 150. C
- 420-9 (3,3,3) Geology of Petroleum.** The geological occurrence of petroleum, including origin, migration, and accumulation; a survey of exploration methods and production problems and techniques. Laboratory study applies geological knowledge



to the search for and production of petroleum. Laboratory. Prerequisites: 221, 302. C  
**425-13 (5,4,4) Invertebrate Paleontology.** (a) Paleontological principles and a survey of important invertebrate phyla and their fossil representatives. (b) Paleoecology and a comprehensive study of the Mollusca and Bryozoa. (c) Coelenterata, Brachiopoda and Echinodermata. Laboratory. Prerequisite: 221 or GSA 201. C

**430-4 Physiographic Provinces of North America.** Gives the student an intelligent appreciation of the evolution of land forms in the physiographic provinces of North America and explains the surface features in a landscape. Prerequisite: 220. C

**431-8 (4,4) Geomorphology and Air Photo Interpretation.** A study of land forms and surface conditions, relating topographic features to the underlying rocks and structure and to processes of erosion, deposition, and earth movements. Laboratories consider techniques of observation, description, and analysis including use of many types of maps, air photos, infra-red, radar, satellite and other geophysical sensing devices. Prerequisite: 220. C

**440-1 to 4 Independent Study.** Prerequisites: 220, 221, advanced standing. C

**445-3 (1,1,1) Seminar in Geology.** Study of major problems in Geology. Primarily student discussion based on library work. Prerequisite: senior standing. C

**450-9 Field Geology.** A field mapping course including problems in stratigraphy, structure, paleontology, physiography, and economic geology. Requires a written geologic report. Consult the department for dates, cost, and equipment. Students will live at the Little Grassy Lake campus. Prerequisite: 302. C

**450b-3 Advanced Field Geology.** C

**510-11 (4,4,3) Stratigraphy.** (a) Advanced sedimentation. Physical aspects of modern sediments are examined in detail and related to the geometry of the depositional body and its environment. (b) Stratigraphic methods. Stratigraphic correlations are explained using lithologic, paleontologic, electrical, magnetic, radio active and seismic data. (c) Regional stratigraphy of North America. Investigates the established stratigraphic subdivisions or North American geology. Prerequisite: 425. C

**515-12 (4,4,4) Mineral Deposits.** (principles, metallics, nonmetallics) Principles of mineral deposition and genesis, and the origins and geologic settings of the important mineral deposits of the world. Laboratory. Prerequisites: 302, 310. C

**520-12 (4,4,4) Advanced Petrology.** (a) Igneous Petrology. Physical chemistry, petrographic classification, and genetic relationships of the igneous rocks. (b) Metamorphic Petrology. Physical chemistry, petrographic classification, and genetic relationships of the metamorphic rocks. (c) Sedimentary Petrology. Petrographic classification and origin of sedimentary rocks. Prerequisites: 310, 415, or equivalent. C

**528-3 to 9 Micropaleontology.** Structure, classification, paleoecology, stratigraphic distribution, and evolution of microfossils. Laboratory work in techniques of collection, preparation, and study of microfossils. Identification and use of microfossils in solving stratigraphic problems. Preparation for research in micropaleontology. (a) Conodonts and ostracodes. (b) Foraminifera. (c) Lesser-known groups, invertebrates and algae, pollen and spores. Prerequisite: 425. C

**540-1 to 9 Advanced Studies.** C

**541-1 to 9 Research.** C

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

## GOVERNMENT

**406-4 The American Chief Executive: President and Governor.** A study of the origin and background of the presidency and the governorship, qualifications, nomination and election, succession and removal, the organization of the executive branch, and the powers and functions of the president and governor. Prerequisites: 231, 232 (C); GSB 203a (E).

**410-3 Labor and Politics.** A political history of the American labor movement from its early century origins to the present. Attention given to the political philosophy and practice of labor unions. Prerequisite: 231. C

**415-6 (3,3) (C); 415-9 (3,3,3) (E) Political Behavior.** An analysis of the nature of public opinion and methods of influencing political behavior. Major attention given to studying the basic psychological attitudes and behavior. Prerequisite: 231 (C); GSB 203a (E).

- 420-3 Pressure Groups and Politics.** An analysis of interest groups and their techniques of political propaganda. Prerequisite: 231 (C); GSB 203a (E).
- 430-3 Government and National Security.** A study of the organization of government for national security; the historical and current developments in civil-military relations; the legal status of over-seas military aid programs; international defense programs; and the problem of disarmament. Prerequisite: 231 or consent of instructor. C
- 432-3 Government and Natural Resources.** A study of the administrative and policy problems in the development of multiple purpose conservation programs by the national government. Prerequisite: 231 or consent of instructor. C
- 434-3 Government and Agriculture.** An historical and contemporary survey of the role of agriculture in politics, the major and minor farm parties and pressure groups, the elements of the current "farm problem," and the influence of agriculture in public agencies and the formation of public policy. Prerequisite: 231. C
- 435-4 Government and Business.** An historical study, with contemporary emphasis upon relations between government and economic institutions. Prerequisite: 231 or consent of instructor (C); GSB 203a (E).
- 436-3 Government and Labor.** (See Economics 436.) C
- 438-4 Social Welfare Legislation.** The Social Security Act and other legislation of major significance for the welfare and maintenance of the family, the handicapped, children, and other special groups. Their relationship to the legal structure of federal, state, county, township, and municipal welfare facilities and institutions with indications of economic and social consequences. Prerequisite: consent of instructor. C
- 440-4 Public Personnel Administration.** An analysis of some of the central problems encountered by the government executive in recruiting, maintaining, and developing personnel, such as political neutrality, leadership and motivation, career development, security regulations, and the role of personnel in policy planning and execution. Prerequisite: GSB 203a, 360.
- 441-4 Philosophy of Politics.** (See Philosophy 441.) C
- 450-12 (4,4,4) Latin American Governments.** The countries covered are (a) those of the Caribbean area; (b) those of South America; (c) this section deals with the government relations between the United States and the Latin American nations. Prerequisite: 200, GSB 203a.
- 451-3 International Politics of Europe.** Nation-state system in Europe; foreign politics of major states; nationalism as a source of conflict, Soviet expansionism; and progress toward European security and unification. E
- 452-4 Governments and Politics of Sub-Sahara Africa.** A study of the governments and politics of the former and present British and French territories: Ghana, Nigeria, Kenya, Guinea, Congo, Senegal, etc. Prerequisite: GSB 390 or consent of instructor. C
- 453-12 (4,4,4) Soviet Russia (C); 453-12 (4,4,4) The Government and Politics of the Soviet Union (E).** An intensive study and research exercise in communist government and politics. Prerequisite: 200, GSB 390, or consent of instructor.
- 454-8 Development of German Democracy.** Offered cooperatively by Southern Illinois University and the University of Hamburg. Involves a summer's residence in Hamburg, Germany, and study under professors of the two cooperating universities. Prerequisite: consent of the American professor. C
- 456-4 Great Britain and the British Empire.** A survey of the governmental institutions and practices within the British Empire, with particular attention to the political systems of Australia, Canada, and South Africa. (The governments of India and Pakistan are treated in 458.) Prerequisite: GSB 390 or consent of instructor.
- 457-8 (4,4) (C); 457-4 (E) Government and Politics in the Near and Middle East.** Iran, Iraq, Syria, Lebanon, Egypt, Jordan, Saudi Arabia, etc. Prerequisite: GSB 390 or consent of instructor (C); 210 or equivalent (E).
- 458-12 (4,4,4) (C); 458-8 (4,4) (E) Government and Politics of Asia.** (a) Burma, Thailand, Malaya, Indochina, Indonesia, Philippines. (b) China, Japan, Korea, Formosa. (c) India, Pakistan, Ceylon. Prerequisite: GSB 390 or consent of instructor.
- 461-4 Organizational Theory and Public Administration.** Analysis of various theoretical approaches to public administration with emphasis on recent American literature in this field. Prerequisite: 360 or consent of instructor (C); 360 or concurrent (E).
- 462-3 Intergovernmental Relations.** A course dealing with the interrelationships be-



tween the various levels of government in the United States. Prerequisite: 231 or GSB 211b. C

**463-3 Government, Social, and Economic Policy.** Exploration of contemporary agencies of policy determination within the national government; attention to methods and devices utilized to effectuate national social and economic policy within the federal system; appraisal of historical developments, trends, and results as they affect American governmental, constitutional, and political philosophy, public administration, and the general welfare. Prerequisite: GSB 211c or consent of instructor. C

**464-3 Regulatory Administration.** A study of the work of the major regulatory commissions of the national government. Prerequisite: 360 or consent of instructor. C

**465-3 Local Government and Public Administration.** Problems and issues at local governmental level. Emphasizes administrative approaches, special problems in inter-governmental relationships, and the developing tasks related to urban expansion. Prerequisite: 360. E

**466-3 State Government and Administration.** Leading problems of government and administration of American states. Prerequisite: 232. C

**467-4 Municipal Government and Administration.** Development and functioning of city government in the U.S. Prerequisite: 232. C

**468-3 County Government in the United States.** An examination of the traditional rural county and township, the growing number of metropolitan counties, and the associated growth of special districts in the U.S. Prerequisite: 232. C

**469-3 Administration of State and Local Finance.** An examination of the administrative problems connected with local and state revenues and expenditures in the U.S. Prerequisite: 232. C

**470 Urban Planning.** (See Geography 470.)

**471-4 The Organization and Administration of American Foreign Policy.** An advanced course dealing with the organizational and administrative aspects of American foreign policy. Prerequisite: 243 or 371. C

**472-4 International Organization (C); 472-4 International Government (E).** Development and organization of international governmental and administrative systems, with emphasis on the United Nations. Prerequisite: GSB 303 (C); 200 (E).

**473-3 Metropolitan Studies and Research.** Examination of the reorganization movement related to improvement and restructuring of government in metropolitan areas. Review and evaluation of special problems in research methodology. Prerequisite: 360, or 465, or consent of instructor. E

**475-8 (4,4) International Law.** Rules and practices governing the nations in their relations in peace and war. Prerequisite: GSB 303. C

**478-4 International Politics.** A study of the interplay of political forces in the international community. Particular emphasis will be placed on war-time diplomacy, peace treaties, the alignments and conflicts of power in the post-war period. Prerequisite: GSB 303 or consent of instructor. C

**480-4 The Pacific and the Far East.** Political and strategic problems in this area. Prerequisite: GSB 303 or History 370. C

**484-8 (4,4) History of Western Political Theories.** (Same as Philosophy 484) (a) Outstanding political theories of the ancient and medieval periods, including theories of Plato, Aristotle, Cicero, St. Augustine, and Thomas Aquinas. (b) Important political theories from the Renaissance to the end of the 18th Century, including the theories of Machiavelli, Hobbes, Rousseau, Locke, and Burke. C

**484-12 (4,4,4) History of Political Theories.** (Same as Philosophy 484.) (a) Outstanding political theories of the ancient and medieval periods, including theories of Plato, Aristotle, Cicero, St. Augustine, and Thomas Aquinas. (b) Important political theories from the Renaissance to the end of the 18th century, including the theories of Machiavelli, Hobbes, Rousseau, Locke, and Burke. (c) The theories of Publius, Bentham, Hegel, Tocqueville, Mills, Marx, and Nietzsche. Prerequisite: 200. E

**485-4 Renaissance and Rationalist Political Theories.** C

**487-6 (3,3) American Political Ideas.** An historical study of the political ideas of leading American statesmen and publicists, and their resulting influence upon our governmental system. Prerequisite: 305 or GSB 385 (C).

**488-12 (4,4,4) Recent Political Theory.** (a) The outstanding Anglo-American liberal political theorists from John Stuart Mill to the present. (b) The outstanding "scien-



- tific" political theorists from Karl Marx to the present. (c) The outstanding idealistic and nationalistic political theorists from Hegel to the present. Prerequisite: GSB 385 or 390. C
- 495-8 (4,4) Constitutional Law.** (a) Constitutional law of the United States with emphasis upon cases dealing with the framework of our federal system. (b) American liberties. Prerequisite: 231. C
- 495-12 (4,4,4) Constitutional Law.** (a) A study of the development of American constitutional law chiefly through judicial opinion. Emphasis is placed on the analysis of federalism and the distribution of powers. (b) A study of government power and the rights of property. Special attention is directed to tension between the public welfare and private rights, the extent of government power to regulate property rights, and state versus federal power over commerce and taxation. (c) A study of the nature and extent of civil rights and liberties in the United States. Special attention is given to freedom of speech, press, and association, separation of church and state, equal protection of the laws, and the rights of persons accused of crime. Prerequisite: 210 or equivalent. E
- 497-4 Administrative Law.** Law as it affects public officials in carrying out the rights, duties, and necessary functions of the public office. Prerequisite: 360. C
- 498-4 Jurisprudence.** (Theories of Law.) Major schools in legal thinking. Positive law and natural law. Idea of justice and concept of natural rights. Prerequisite: 231. C
- 499-4 Scope and Method of Government.** Practical training in research and writing techniques in the field of government. Bibliographical materials, footnotes, use of law library facilities, and government documents. Required of all beginning graduate students. C
- 500-3 Methods of Empirical Research.** The techniques, analysis, and problems of empirical research are studied. The method given greatest coverage is the sample survey. Prerequisite: 499 or consent of instructor. C
- 501-2 to 9 Seminar in Contemporary Legislation.** Prerequisite: 340 or consent of instructor. C
- 502-2 to 9 Seminar in Governmental Problems.** Prerequisite: consent of instructor. C
- 503-2 to 9 Seminar in Pressure Groups.** Prerequisite: 420 or consent of instructor. C
- 505-2 to 9 Seminar in Political Parties.** Prerequisites: 380, 420, or consent of instructor. C
- 506-2 to 9 Seminar in Political Behavior.** Prerequisite: 415 or consent of instructor. C
- 508-2 to 9 Seminar in International Relations.** Prerequisites: 370, 472 or 475, or consent of instructor. C
- 509-2 to 9 Seminar in International Organization.** Prerequisite: 472 or consent of instructor. C
- 510-2 to 9 Seminar in State Government.** Prerequisite: 466 or consent of instructor. C
- 511-2 to 9 Seminar in Local Government.** Prerequisite: 467 or consent of instructor. C
- 512-2 to 9 Seminar in Public Administration.** Prerequisite: 360 or consent of instructor. C
- 513-2 to 9 Seminar in Constitutional Law.** Prerequisite: 395 or consent of instructor. C
- 515-2 to 9 Seminar in Comparative Constitutions.** C
- 516-2 to 9 Seminar in Municipal Administration.** Prerequisite: 467 or consent of instructor. C
- 517-2 to 9 Seminar in Problems in Political Theory.** Prerequisite: 360 or consent of instructor. C
- 520-2 to 9 Seminar in American Foreign Policy.** Prerequisite: 371 or consent of instructor. C
- 521-1 to 12 Readings.** Supervised readings in selected subjects. Not more than 6 hours may apply toward the master's degree. Prerequisite: consent of instructor. C
- 525-2 to 9 Seminar in International Law.** Prerequisite: 475 or consent of instructor. C
- 526-2 to 9 Seminar in County Government.** Prerequisite: 465 or consent of instructor. C

**530-4 to 12 Internship in Public Affairs.** Field work in the office of a governmental agency; city, county, state, national, or international. Under certain circumstances it might be in the office of a political party organization or in that of some organized pressure group. The type of internship and the place and organization in which it is taken must be mutually satisfactory to the student and the department. A paper in which the student correlates his academic knowledge with his practical experience is required. Prerequisite: consent of department.

**595-2 to 12 Individual Research.** Selection, investigation, and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Prerequisite: 499 or consent of instructor. C

**598-1 Teaching Government.** C

**599-2 to 9 Thesis.** Prerequisite: 499 or consent of instructor. Minimum of 5 hours to be counted toward a degree. C

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## GUIDANCE AND EDUCATIONAL PSYCHOLOGY

**412-4 Mental Hygiene.** A survey of principles concerning factors and conditions in personal life that tend to facilitate or deter mental health. Mental health viewed as living creatively in an atmosphere of satisfactory inter-personal relations. Prerequisite: 305. C

**420-4 Educational Statistics.** The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. Includes methods of organizing and presenting data, describing group performance, describing individual performance, model distributions, measure of relationship, measures of reliability, and tests of significance. Prerequisite: 305. E

**422-12 (4,4,4) Educational Measurement and Statistics.** (a) Study of the theory and techniques of measurement. Special attention to the construction and use of teacher-made tests. (b) The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. (c) Study of standardized tests and other measuring devices to reveal individual and group characteristics. Emphasizes application and interpretation for counseling, education, and research purposes. Prerequisite: 305. C

**422-4 Educational Measurements I.** Study of the philosophy and techniques of measurement. Special attention to the construction and use of teacher-made tests and basic concepts related to standardized tests. Prerequisite: 305. E

**426-4 Individual Inventory.** Principles and procedures for studying individual pupils and their problems for guidance purposes. Emphasis on interview, observation, ratings, case study, cumulative record, etc. Prerequisites: 422b, 442.

**442-4 Basic Principles of Guidance.** Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305. C

**475-4 Implementation of Guidance Principles in the Public Schools.** C

**481-1 to 6 Seminar.** Conducted by staff members and/or distinguished guest lecturers on pertinent topics. Prerequisite: 305, consent of instructor. C

**483-6 Community Programs for the Prevention of Juvenile Delinquency.** Analysis of delinquency prevention in community programs administered by the public schools, social welfare, governmental agencies. A study of the various categories of juvenile delinquency is applied to a critique of existing programs and to the development of experimental programs. The roles of professional workers pertinent to such programs are delineated with special reference to the public school administration, counselor, the social workers, the court, probation officers, and police. Prerequisite: consent of instructor. E

**485-4 to 9 Workshop in Educational Utilization of Community Resources.**

**501-2 to 6 (C); 501-2 to 8 (E) Special Research Problems.** For majors in Guidance. Formulating, investigating, and reporting on a problem in the area of guidance. Prerequisites: advanced standing and consent of department.



- 502-4 Measurement and Evaluation of Products and Procedures.** C
- 503-4 Tests and Measurements in Business Education.** C
- 511-4 Educational Implications of Learning Theories.** Survey of the major theories of learning. Emphasizes the implications of these theories for classroom practice. Prerequisite: advanced standing.
- 515-4 Psychological Aspects of Education.** Designed to survey the applications of psychology to educational settings. Prerequisite: advanced standing.
- 520-8 (4,4) Educational Statistics and Experimental Design.** (a) Statistical methods needed for educational research. Includes tests of significance, non-parametrics, correlation analysis, and test selection. Prerequisite: 422b. (b) Systems of organizing and analyzing data so that maximum information can be obtained. Includes analysis of variance, factorial design, square designs, mixed designs, tests of homogeneity, analysis of covariance, etc. Must be taken in a,b sequence. Prerequisite: 422b, 570a.
- 522-4 Educational Measurements II.** Study of standardized tests and other measuring devices to reveal individual and group characteristics. Emphasizes application and interpretation for counseling, education, and research purposes. Prerequisites: 420, 422. E
- 525-4 School Behavior Problems and Their Prevention.** A survey of the approaches to the study of personality-development and socialization of the school child. Methods used in the correction of behavior problems are considered. Prerequisite: consent of instructor.
- 526-4 Techniques in Individual Guidance.** Each student employs psychometric procedures, makes observations, and holds interviews with a pupil, his parents, teachers, and others. Prerequisites: 525, consent of department (C); consent of instructor (E).
- 528-4 Advanced Guidance of the Individual.** A continuation of 526. Techniques and the methods of treatment which would apply to a particular case. Problems for consideration: educational difficulties, physical disorders, and the ways in which these are related to behavior of school children. Prerequisite: 526. C
- 535-4 Introduction to Individual Measurement.** Survey of theories and practices in the individual assessment of human behavioral characteristics, to develop understanding and appreciation of these concepts for use in the counseling relationship. Prerequisite: 522. E
- 536-8 (4,4) Individual Measurement and Appraisal.** (a) Children: Designed to teach the administration of the Stanford-Binet and the Wechsler Intelligence Scale for Children. Class periods are devoted to discussions concerning theories of intelligence and problems in the administration of intelligence tests. (b) Adolescents: Designed to teach the administration of the Wechsler Intelligence Scale for Adults. Class periods are devoted to discussions concerning theories of intelligence and problems in the administration of intelligence tests. Prerequisite: consent of instructor.
- 537-12 (4,4,4) Counseling Theory and Practice.** (a) Systematic study of the assumptions and fundamental practices of major approaches to counseling. Observation and practice utilized to supplement didactic discussion. Prerequisite: consent of department. (b) Systematic study of major theories of counseling, as they apply to school situations. Supervised experience in role-playing utilizing these approaches to counseling. Prerequisite: 537a. (c) Continuation of 537b with supervised experience in counseling to illustrate relationship of theory and practice. Prerequisite: 537b. C
- 537-4 Counseling Theory and Practice I.** Systematic study of the major approaches to counseling. Observation and practice utilized to supplement didactic discussion. Prerequisites: 412, 542. E
- 538-4 Counseling Theory and Practice II.** Systematic study of major theories of counseling as they apply to school situations. Supervised experience in role-playing or laboratory experience utilizing these approaches to counseling. Prerequisite: 537. E
- 541-4 Occupational Information and Guidance.** Designed for school counselors, industrial supervisors, and teachers to give an orientation to and experience with occupational information and vocational adjustment. Prerequisite: 442 (C); 542 (E).
- 542-4 Basic Principles of Guidance.** Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305. E



**543-4 Guidance Through Groups.** Study of the methods, techniques and materials for the organization and utilization of groups for guidance purposes. Prerequisite: 442.

**545-2 to 4 (C); 545-8 to 16 (E) Seminar.** (a) Problems in guidance. A seminar designed to analyze current problems in guidance. Prerequisite: advanced standing. (b) Learning and communications. Students examine theory and research related to communication by reviewing literature, designing studies, and conducting research projects. Prerequisite: consent of instructor. (c) Educational diagnosis. Use of diagnostic tests in school settings. Includes theory, development, administration, and interpretation of selected diagnostic tools. Prerequisite: consent of instructor (C). (d) Test development. Applies measurement principles to the development of tests. Primary emphasis upon achievement test construction and research involving test data. Prerequisite: consent of instructor (C). (e) Test analysis. Extends and applies the research implications from 545d. Prerequisite: 545d (C). (f) Pupil adjustment. Analyses various concepts of adjustment and their behavioral implications. Prerequisite: consent of instructor. (g) Learning and instruction. Analyses research in classroom learning and implications for the classroom. Included are practice and review, transfer of training, retention and forgetting, and motivation. Prerequisite: 511 (C). (h) Individual differences; extends and applies research (C). (j) Organization and administration. Analysis of principles, procedures, and plans necessary for initiating, developing, and appraising a school guidance program. Prerequisite: 537a. (m) Doctoral seminar in behavioral foundations of education. Open only to students admitted to doctoral curricula who have completed 590 (C).

**545-8 to 16 Seminar.** (a) Problems in guidance. A seminar designed to analyze current problems in guidance. Prerequisite: advanced standing. (b) Learning and Communications. Students examine theory and research related to communication by reviewing literature, designing studies, and conducting research projects. Prerequisite: consent of instructor. (f) Pupil adjustment. Analyses various concepts of adjustment and instruction. Analyses research in classroom learning and implications for the classroom. Included are practice and review, transfer of training, retention and forgetting, and motivation. Prerequisite 511. (j) Organization and administration. Analysis of principles, procedures, and plans necessary for initiating, developing, and appraising a school guidance program. Prerequisite: 537.

**554-4 Verbal Behavior.**

**562-8 (4,4) Human Development in Education.** Theories and research evidence regarding child development and behavior are investigated. These considerations focus upon implications for research and educational practices. (a) Childhood. Prerequisite: advanced standing. (b) Adolescence. May be taken in a,b sequence.

**565-4 Psychology of Elementary School Subjects.**

**566-4 Psychology of Secondary School Subjects.**

**575a-1 to 12 Practicum in Counseling.** Practical experience in counseling with a representative sample of the population. May include role playing, psychodrama, and listening to recordings of counseling sessions individually or in groups. Prerequisite: 537a.

**575b-1 to 12 Practicum in Elementary Guidance.** Supervised experience in interviewing and counseling, case study, and educational diagnosis with the elementary school child. Prerequisites: 537a, consent of instructor.

**575c-1 to 12 Practicum in Secondary Guidance.** Supervised experience in guidance functions. Includes counseling with secondary school pupils, conducting parent interviews, consulting with teachers, and the collection and dissemination of information. Prerequisites: 537a, consent of instructor (C); consent of practicum coordinator (E).

**575e-1 to 12 Practicum in College Student Personnel Work.**

**575f-1 to 12 Practicum in Behavioral Modification.** Supervised laboratory in clinical experience in conjunction with didactic course work.

**576-4 Practicum in School Personnel Work.** Laboratory research course for advanced majors. Students to assist with testing programs, keeping records, counseling students. Research projects to accompany practical experience. Prerequisites: advanced standing and consent of instructor.

**581a-1 to 12 Internship in Counseling.**

<b>581b-1 to 12 Internship in Elementary Guidance.</b>	C
<b>581c-1 to 12 Internship in Secondary Guidance.</b>	C
<b>590-2 Seminar in Behavioral Foundations.</b> A course required of all students beginning advanced graduate study. Students examine empirical modes of inquiry and empirical formulations of learning behavior. Topics explored include the classroom as a social system, the learner, learning models and data language. (Taken concurrently with Educational Administration 591. Prerequisite: formal admission to Doctor of Philosophy studies.)	C
<b>596-5 to 9 Independent Investigation.</b>	C
<b>599-3 to 9 Thesis.</b>	C
<b>600-1 to 48 Dissertation.</b>	C

## HEALTH EDUCATION

- 400-4 Health Appraisal of School Children.** The role of the teacher in the health appraisal of the school child, including school health examinations, use of health records, and emphasis on training for recognition of health deviations from normal common among school children. Not open to students who have had 450.
- 405-3 Methods and Materials in Social Hygiene.** Methods and materials course designed to prepare the prospective teacher to instruct in various phases of family life education. C
- 413s-4 Safe and Healthful Living Outdoors.** This course has to do with safe and healthful living outdoors. Areas to be included are foods, sanitation, survival, plants and animals, natural hazards, emergency care, water, riflery, and others. Prerequisites: 334s, and at least 10 hours of biological sciences. C
- 415s-4 Workshop in Driver Education and Traffic Safety.** Summer course designed for pre-service and in-service teachers of driver education and traffic safety. Individual and group problems will be treated. Lectures by safety authorities, demonstrations, field trips, audio-visual materials, and individually supervised research in special problem areas. Prerequisite: 302 or equivalent.
- 443s-4 Methods and Materials in Driver Education.** An advanced course in driver education which includes a study of existing courses of study, review of research, course-of-study planning, visitation and reporting, panel discussions, accident statistics, conducting the secondary school program, testing, and demonstration in the car. Prerequisite: 302.
- 450-4 Health Education in the Elementary School.** Responsibilities of schools to instruct their students in basic fundamentals of how to live healthfully. Principles, methods, programs and materials for the elementary teacher. The integration of health with other subjects, health observation of children, abnormalities, screening tests, and related materials. Not open to students who have had 400. C
- 460-4 Methods and Materials in Secondary School Health Education.** Shows the prospective teacher the fundamental processes involved in the teaching of health education at the secondary level.
- 461-4 Workshop in Health Education.** Summer course for in-service teachers, administrators, advanced students, nurses, social workers, and others interested in public health aspects of school and community living. Individual problems of classroom health treated as units in such fields as speech defects and their detection and correction, communicable disease control, nutrition, social and mental hygiene. Lectures, demonstrations, films, field trips, and individually supervised research in special problems. Prerequisite: 100 or its equivalent.
- 462-4 Health Education Workshop.** A continuation of 461 with emphasis on total school health teaching objectives. C
- 463-4 Health Education Workshop.** A continuation of 462 with emphasis on evaluation of total school health teaching program. C
- 464-4 Workshop in Alcohol Education.** Summer course for in-service teachers, administrators, and others interested in the development and improvement of alcohol education programs at the elementary and secondary school levels. Includes approaches to understanding physiology of alcohol, cultural differences and patterns of alcohol problems, teenage drinking and current theories and approaches to alco-



holism. Emphasis on the analysis and development of content, methods, materials, teacher preparation, and special needs and problems of individual communities. Demonstrations, lectures, films, field trips, and individual research in special areas. C  
**471-4 Organization and Administration of School Health.** Appraisal of overall school organization for health education, including health service and personnel, health and safety instruction, school environment, school health examination, local, state, and federal resources for health, health councils, and interdepartmental relationships.

**475s-3 Law Enforcement and Planning.** Designed to acquaint Safety and Driver Education teachers with the purposes of traffic law enforcement and engineering and the methods used to fulfill these purposes. Emphasis placed upon ways of improving existing services and coordinating the efforts of the many official and non-official agencies concerned with the traffic problem. Prerequisite: 433s or consent of instructor. C

**480s-4 Workshop in Safety Education.** Summer course for in-service teachers, nurses, administrators, advanced students, and others interested in safety education as it applies to the public school and the community. Individual problems, lectures, demonstrations, films, field trips, and individual group study in special areas of interest. Prerequisite: 313 or 323 or consent of instructor.

**481s-4 Safety Education Workshop.** A continuation of 480s with emphasis on methods and evaluation of total school safety education programs. Prerequisite: 314s or 323s or 480s or consent of instructor. C

**488-4 Health Education Aspects of Environmental Sanitation.** Application of principles of learning to man's contacts with his environment: water, food, air, radiation, housing, and refuse. Emphasis is placed upon both individual and community aspects of environmental health. Prerequisites: 100, 205, or equivalent. C

**489-4 Introduction to Vital Statistics.** An introduction to bio-statistics; examination of theories of population growth; understandings of collection, organization, summarization, presentation, evaluation, and interpretation of data relative to biological happenings. Prerequisite: Mathematics 120 or equivalent. C

**490-2 to 8. Field Work in School and Community Health.** Field training, observation, and participation in current public and school health programs. Area schools and public health agencies will be utilized to provide practical experience for the health education student. Restricted to majors in the department. C

**500-4 Community Organization for Health Education.** Review of the philosophies of community organization for health; techniques of group work, current research in community organization and examination of programs of community health agencies. C

**510-4 Construction of the Curriculum in Health Education.** Review of health instruction programs in elementary and secondary schools, consideration of health needs and interests and their relationship to the curriculum, evaluation of health texts, and evaluation of current research. C

**511-5 Practicum in Health Education Workshop.** Designed to give graduate and post-graduate students experiences in organizing, planning, and operating in-service training programs through workshop methods. C

**515-4 Review of Current Literature in Health Education, Public Health and Safety Education.** A survey and analysis of the newer publications in the related fields of health education, public health, and safety education. C

**520-4 to 6 Special Projects in Health Education.** For students who may wish to conduct more detailed research and study on advanced problems in the fields of public health, safety education, and health education. C

**525s-4 Organization, Administration, and Supervision of Safety Education.** Designed to give the student basic principles of organization, administration, and supervision of safety education. Problems, policies practices, and methods involved in the organization and administration of a safety education program. C

**526-4 Evaluation in Health Education.** Survey and analyses of health testing and evaluations, procedure including surveys, inventories, knowledge, behavior and attitude tests, check lists, and questionnaires, their uses and limitations. Evaluation of total school health program is emphasized. By permission of the department. C

**530s-4 Problems and Research in Accident Prevention.** Principles of accident pre-



vention, causes of accidents, problems of behavior in school, home, traffic and transportation. Prerequisites: 443s, 525s, or consent of instructor. C

**533a-4 Human Conservation.** An analysis of community health problem trends and changes including aging; chronic and degenerative diseases; mental illnesses; traumatic illness, injuries, and defects; radiological hazards; communicable diseases; and maternal and child health problems. An epidemiological approach to the cause, nature, extent, and trends in erosion and wastage of human resources. Prerequisite: permission of instructor. C

**533b-4 Human Conservation II.** An analysis of community structures in relation to positive health services, education, and healthful living in respect to community health problems and health requirements. A study of trends in programming to meet minimum health requirements and to care for or ameliorate existing health problems and hazards on a communitywide basis. Prerequisite: 533. C

**533c-4 Human Conservation III.** An analysis of the unmet health needs or requirements for optimum conservation of human resources in the community including a study of pilot and experimental programs and research in community efforts to meet health needs and solve existing health problems. An evaluative approach to existing health programming and research including an analysis of further needed experimentation and research and possible sources for leadership and funds for promoting community health research, programmings, and plannings. Prerequisites: 533a,b. C

**536-4 Professional Preparation in Health Education.** National, state, local factors influencing teacher preparation in health education, including accreditation of teacher education programs, certification of health education teachers. Undergraduate and graduate curricula developed and analyzed. C

**590-4 to 12 Field Internship.** Full quarter of field work with an approved department of public health or voluntary health agency under the supervision of the agency officer in charge and the supervisor from the Department of Health Education. C

**597-3 (1,1,1) Seminar in Health Education.** Seminar for advanced graduate students devoted to discussing individual health projects, presenting research problems and preliminary presentation of dissertation topics. C

**599-3 to 9 Thesis.** C

**600-1 to 48 Dissertation.** The dissertation for the Doctor of Philosophy degree in the College of Education must meet the minimum requirements of 36 hours. C

## HIGHER EDUCATION

**402-2 Careers in Higher Education (College Student Personnel).** An exploratory course designed to acquaint the student with the career possibilities and functions of higher education. C

**510-4 Higher Education in the United States.** An overview of American higher education: its development and scope, organizations and functions, issues and criticisms. C

**512-4 Higher Education in Selected Nations.** Study of higher education systems and trends outside the United States, and of the university in world affairs. C

**513-4 Organization and Administration in Higher Education.** Theories and practices in governance of various types of higher education institutions with attention, through case studies, to problems of formal and informal structures, personnel policies, decision-making, institutional self-study, and societal-governmental relations. C

**515-4 College Student Personnel Work: Operations and Policies.** Study of organization, functions, and undergirding policies of student personnel services and programs in contemporary colleges and universities. C

**516-4 College Student and College Culture.** A study of the nature of the student, the impact of the college on student development, the nature of the college as a unique social institution, and the interaction between the student and his institution. C

**518-4 College Teacher and College Teaching.** Study of contextual roles of academic man as teacher, scholar, and faculty member; of teaching-learning processes, programs, and evaluations; and of professional values, including academic freedom. C

**522-1 to 12 Readings in Higher Education.** Supervised readings in aspects of such general areas in higher education as college teaching and learning, central adminis-

tration, college student services, policy issues, or history of higher education. Prerequisite: consent of instructor. C

**523-1 to 12 Internship in Higher Education.** Supervised field experience in appropriate settings, with evaluative seminars. (a) College Teaching. (b) College Student Personnel. (c) College Administration. (d) Institutional Research. Prerequisite: consent of department. C

**524-2 to 6 Individual Study.** Individual inquiry into selected problems in higher education. Prerequisite: consent of instructor. C

**535-2 Higher Education Seminar I.** A series of seminars for specialized areas of administrative practice and policy. (a) Educational Programming in Student Housing. (b) Business Administration of Student Housing. (c) Student Personnel Group Work. (d) Non-Academic Personnel Management. (e) Problems in Central Administration. (f) Business and Fiscal Administration. (g) Academic and Faculty Administration. (h) Administration of Admissions and Records. (i) Junior College Administration. (j) The Technical Institute. (k) Adult and Continuing Education. (m) Institutional Research. (p) Development and Management of Organized Research. C

**545-3 Higher Education Seminar II.** A series of seminars for reflective and scholarly inquiry into significant domains in higher education. Prerequisite: consent of instructor. (q) History of Higher Education. (r) Sociology of Higher Education. (s) Law, Legislatures, and Higher Education. (t) Aesthetics and Higher Education. (v) The Federal Government and Higher Education. C

**551-4 Curriculum Design and Policy.** Study of assumptions, materials, method, and evaluation in the designs of various curricula in colleges and universities, with attention to curriculum resources and policy. C

**555-4 Philosophy of Higher Education.** Critical examination of assumptions and aims, operations and consequences, and basic concepts and symbols of higher education from philosophic perspectives. C

**565-4 The Community-Junior College.** A study of the nature and function of the junior (or community) college in American higher education, and its relationships to the community and other educational institutions. Course content treats special problems of curriculum, student services, finances, faculty selection and growth, and general policy.

**578-4 Economic Aspects of Higher Education.** A study of economic aspects of higher education in American society. The emphasis on sources and management of college and university financing includes budgeting, control, and current trends. C

**589-4 to 6 Advanced Research.** Selection, investigation, and writing of a special research project under the personal supervision of a graduate faculty member. Prerequisite: consent of instructor. C

**599-1 to 9 Thesis.** C

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## HISTORY

**401-6 (3,3) (C); 401-4 (E) History of the South.** (a) The Old South. (b) The New South. An intensive study of the social, economic, political and cultural developments of the South.

**405-3 The American Civil War.** Emphasis upon the clash of national and sectional interests; economic, political, and military aspects of the conflict. Prerequisite: GSB 300b or consent of instructor.

**410-2 to 5 Special Readings in History.** Supervised readings for students with sufficient background. Registration by special permission only. Offered on demand.

**411-9 (3,3,3) Social and Intellectual History of the United States.** (a) 1607-1830. (b) 1830-1900. (c) 1900 to present. The development of American society and a study of various types of economic, social, and political thought that have influenced it. C

**412-9 (3,3,3) Intellectual History of the United States.** (a) 17th and 18th centuries. (b) 19th century. (c) 20th century. Prerequisite: GSB 300. E

**414-9 (3,3,3) Intellectual History of Modern Europe.** (a) The Enlightenment, (b) The 19th century, (c) The 20th century. C



- 415-9 (3,3,3) (C); 415-12 (4,4,4) (E) **Early Modern Europe.** (a) Renaissance. (b) The Reformation. (c) Age of Absolutism and Enlightenment. Prerequisite: GSB 101b,c.
- 417-9 (3,3,3) (C); 417-16 (4,4,4,4) (E) **Advanced English History.** (a) The Empire-Commonwealth. (b) Constitutional History. (c) English Culture in the Age of the American Revolution. (d) Tudor England. E
- 420-4 **The French Revolution.** A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.
- 425-6 (3,3) **American Colonial History.** (a) Discovery and Settlement, (b) British Imperial structure. C
- 425-4 **American Colonial History.** Founding of the American colonies and the development of their institutions to 1763. E
- 428-4 **The Age of Jackson.** Origins, background, and development of that phase of American democracy associated with the Jacksonian era. The political, social, and economic history of the years 1815-44 will be considered in detail. Prerequisite: GSB 300a.
- 430-9 (3,3,3) **Late Modern Europe.** (a) Age of Revolution, 1815-1880. (b) 1880-1918. (c) Since 1918. Age of Dictatorships.
- 435-12 (3,3,3,3) **Advanced American History.** (a) 1865-1895. (b) 1896-1919. (c) 1919-1939. (d) 1940-present. C
- 435-9 (3,3,3) **Advanced American History.** (a) 1865-1912. (b) 1913-1932. (c) 1932 to present. The major problems and trends from the Civil War to the present. Parts may be taken separately. Prerequisites: GSB 300a,b. E
- 440-6 (3,3) **History of American Diplomacy.** (a) To 1913. (b) 1913 to the present. A study of the important treaty relations of the United States, and a general consideration of American foreign policies. Prerequisites: GSB 300a,b, or consent of instructor.
- 442-9 (3,3,3) **History of the West.** (a) Colonial. (b) Trans-Allegheny. (c) Trans-Mississippi. C
- 449-3 **Development of Afro-Asian Nationalism.** A study of the rise of national movements, the winning of independence, and the vast array of reconstructional problems. Post-Bandung developments and the relation of Afro-Asian nationalism to the Communist world are extensively discussed. C
- 451-3 **Historiography.** Development of history as a written subject, including works and philosophy of the various historians in ancient, medieval, and modern periods.
- 452-3 **Historical Research and Thesis Writing.** The rules of historical research studied and applied to a definite topic. For history majors only.
- 454-3 **Biography in American History.** Outstanding leaders and their contributions to the history of the United States. Attention to historical writers who specialize in biography. Prerequisite: a course in United States history. E
- 455-3 **History of Inner-Asian Relations.** Tribes, migrations, wars, and power politics in Central Asia and outlying areas of China from Han times through 19th century rivalries to latest developments along the Sino-Soviet frontier. C
- 458-8 (4,4) **History of Science.** (a) Survey of Ancient and Medieval science with emphasis on Greek science and scientific developments of the late Middle Ages. (b) Survey of science from 1500 to 1900 with emphasis on "Scientific Revolution." Prerequisites: GSB 101b,c. E
- 460-9 (3,3,3) **Social and Intellectual History of the Middle Ages.** (a) 500-1000. (b) 1000-1250. (c) 1250-1500.
- 470-3 **Argentina, Brazil, and Chile.** A narrative and comparative study of the independent era of the history of the three leading states of South America.
- 471-6 (3,3) **History of Mexico.** (a) 19th century. (b) 20th century. Significant political, economic, diplomatic, social, and cultural aspects of Mexican life from independence to modern Mexican life.
- 473-6 (3,3) (C); 473-3 (E) **The Caribbean Area.** (a) In the 18th and 19th centuries. (b) In the 20th century. An inquiry into the changing role of the political, economic, strategic and cultural nature of this Mediterranean of the New World.
- 474-3 **United States-Mexico Relations.** A chronological and topical study of the diplomatic, economic, military, and cultural relations between the two nations. E



- 475-6 (3,3) Dictatorship in Latin America.** (a) 19th century. (b) 20th century. A political, economic, social and military study of the domestic and international aspects of dictatorship. Prerequisite: junior standing. C
- 500-4 to 10 (C); 500-3 to 9 (E) History Seminar.** (a) American history, (b) European history, (c) Latin American history.
- 510-2 to 5 Readings in History.** Registration by special permission only.
- 511-3 Studies in the Middle Ages.** Extensive reading and discussion in selected topics of medieval European history.
- 512-3 Studies in Nineteenth Century Europe.** An advanced readings course in selected problems of 19th century Europe. Emphasis will be on economics, social, and intellectual history. Prerequisite: History 430a and b or consent of instructor.
- 514-3 Studies in Asian History.** Pro-seminar course on select topics in Asian History. Prerequisite: consent of department.
- 515-3 Current United States History and Problems.** A content and research course dealing with contemporary American affairs. Consists of textbook assignments and outside readings. Prerequisite: proper background and consent of instructor.
- 516-4 Studies in Contemporary Europe.** A content and research course in European civilization since 1914 which stresses the rise of totalitarianism and the democratic crisis. C
- 517-3 Constitutional History of the United States and Problems.** A content and research course involving origin and development of the American Constitution, from English background, through the convention, to the present. C
- 518-3 England in the Age of the "Glorious Revolution."** An analysis of the ideas and forces that converted the English government into a liberal state with an emphasis on the concepts and principles later applied in the establishment of the American Constitution. C
- 519-6 (3,3) (C); 519-4 (E) The Age of Jefferson.** Rise and development of Jeffersonian Democracy, 1790-1824, with emphasis upon social, economic, and political programs of Republicans and Federalists; the clash of mercantile and agrarian interests.
- 553-3 New Viewpoints in American History.** New interpretations and recent developments in American history. Prerequisite: GSB 300.
- 554-4 Problems in 19th Century America.** Lectures, discussions and readings on significant issues and interpretations of 19th century America. E
- 574-3 United States-Mexican Relations.** A content and research course concerning international relations between the United States and Mexico. C
- 575-9 (3,3,3) Studies in Latin American History.** A content and research course concerning selected studies in Latin American history. C
- 598-3 (1,1,1) Teaching History in College.** Required of all first-year teaching assistants. C
- 599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

## HOME AND FAMILY

- 407-2 to 8 Workshop.** Aids workers in professions related to home and family. C
- 423-4 Advanced Family Housing.** (Same as Clothing and Textiles 423.) Further appreciation and understanding of aesthetic, economic, psychic, and social factors influencing choice of family housing today. Prerequisite: Clothing and Textiles 323 or consent of instructor. C
- 424-4 Selection, Use, and Care of Appliances.** Materials used in equipment, methods of construction, and principles of operation of appliances for cooking, refrigeration, laundering, cleaning; selection, operation, and care of appliances to obtain maximum satisfaction in use. Offered on demand. Prerequisite: 324 or consent of instructor. C
- 435-4 Work Simplification in Home Management.** Basic scientific work simplification principles applied to work done in the home by full-time, employed or physically handicapped homemakers. C
- 456-4 Infant Development.** Current theories and knowledge concerning growth and

development of infants with related laboratory and field experiences. Prerequisite: 237 or Psychology 301 or equivalent. C

**466-2 Practicum in Parent-Child Study.** Designed to increase student's ability to work with parents and parent groups through an awareness of factors in the parent-child relationship and knowledge of current research and methods in parent education. Integration with infant and child development laboratories and related field experience. Prerequisites: 227 and 237 or equivalent. C

**471-2 to 6 Field Experience.** Opportunity for supervised learning experiences in selected areas. Prerequisite: consent of chairman of department. C

**481-2 to 6 Readings.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman. C

**500-4 Research Methods.** The nature of the scientific method and basic techniques in home and family research as applied to the collection, analysis and interpretation of data. Prerequisite: Guidance 422b or Mathematics 420 or consent of instructor. C

**540-4 Trends in Consumer Problems.** Social, legal, and economic problems that pertain to the consumer. Selection of individual problems for investigation. Prerequisite: 341 or equivalent. C

**550-4 Advanced Home Management.** Readings, observations, projects, and discussions on selected problems with emphasis on time, money, energy, and family relations. Prerequisites: 331 and 332 or equivalent. C

**556-4 The Pre-School Child.** Growth of the child from birth to six years with emphasis on the various aspects of growth and their interrelationships. C

**562-4 Child Development Through Home and School.** The normal, healthy development of children as it takes place in the home and is promoted by the curriculum and other school activities. C

**566-4 Interpersonal Relationships Within the Family.** Factors that promote satisfactions within the immediate family. Prerequisites: 227 or GSB 341, 237, and 331. C

**571-4 Recent Research.** Review of selected research in various phases of home economics in related fields. Sources of research include colleges, universities, and governmental and industrial agencies. Offered on demand. C

**572-2 to 8 Special Problems.** For students recommended by their chairman and approved by the head of the department and the instructor in charge for independent work or directed study. C

**599-5 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

**600-3 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## HOME ECONOMICS EDUCATION

**414-4 Home Economics for Elementary Teachers.** Units of work in nutrition, school lunches, family and social relationships, textiles, and clothing. C

**415-1 Introduction to Graduate Study.** Seminar to orient the student to graduate work through relation of courses to goals of program, standards of work, habits of thinking, communication of ideas, uses of professional materials and publications. Required. Students should take at first opportunity. C

**481-2 to 6 Readings.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman of department. C

**500-4 Research Methods.** Methods employed in research in home economics education with special study of one according to interest and needs of student. Development of prospectus. Prerequisite: Guidance 422b or consent of instructor. C

**505-4 Home Economics in Secondary Schools.** Consideration of the curriculum for homemaking education in the secondary school. A critical survey of resources. The place of homemaking education in the school and community. C

**506-4 Evaluative Procedures in Home Economics.** Principles and procedures underlying appraisal and evaluation. Development and critical consideration of instruments for appraising pupil growth and the program of instruction. Emphasis placed on values. C

**507-2 to 8 Workshop.** Designed to aid home economics teachers, supervisors, and



leaders in the field with current problems. Resource people are used. Discussions, reports, lectures, and other methods of analyzing and working on solutions to problems. Emphasis for the workshop will be stated in the announcement of the course. C  
**510-4 Supervision of Home Economics.** Nature, function, and techniques of supervision at all levels. Emphasis given to supervision of student teachers. Experience in the field will be provided for qualified teachers. C

**510A-1 to 4 Practicum in Supervision.** Experience in using a variety of techniques at various levels and areas of supervision both on and off campus. Prerequisite: 510 or Educational Administration 456 or consent of instructor. C

**515-4 Trends in Home Economics Education.** Current trends, problems, needs in the field. Attention given to problems and needs of students. C

**516-4 Advanced Methods of Teaching Home Economics.** Recent trends in methods based on research and experimental programs; furthering good relations in homemaking classes as means of clarifying and accomplishing goals; teacher's role; techniques useful in furthering good relations within group and in meeting individual needs. Emphasis given to social significance of these procedures. C

**517-4 Methods and Materials for Adult Programs in Home Economics.** Philosophy of adult education; unit planning, methods, techniques, and resources useful in adult homemaking programs. C

**571-4 Recent Research.** Review of selected research in various phases of home economics in related fields. Sources of research include colleges, universities, and governmental and industrial agencies. Offered on demand. C

**572-2 to 8 Special Problems.** For students recommended by their chairman and approved by the head of the department and the instructor in charge for independent work or directed study. C

**573-1 to 6 Seminar: Research in Home Economics.** Presentation of prospectus outlines, research projects, problems for research, progress reports of research by graduate students and faculty. Prerequisite: consent of instructor. C

**599-5 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

**600-3 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## INSTRUCTIONAL MATERIALS

**400-2 Library Research Methods.** Introduction to the use of library materials in graduate research. Includes a survey of scholarly publishing and the use of reference works in various subjects.

**403-4 School Library Functions and Management.** Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.

**405-4 Library Materials for Children.** Study of the aids, methods, and criteria for the selection and use of books and other instructional materials for children in the elementary schools.

**406-4 Library Materials for Adolescents.** A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school.

**407-4 Basic Reference Sources.** Evaluation, selection, and use of reference sources for elementary and secondary school libraries. Principles and methods of reference service.

**410-4 Public Library Administration.** The administration of municipal, county, and regional libraries, both large and small, with emphasis on meeting the needs of different types of communities. C

**413-4 Cataloging Non-Book Materials.** The classification, cataloging, preparation and circulation of all types of non-book material such as films, filmstrips, slides, realia, etc. Prerequisite: 308.

**417-4 Audio-Visual Learning Methods in Education.** Selection and utilization of instructional materials in the learning environment, elementary through adult levels. Audio and visual materials and procedures are emphasized with some attention given to bibliographies and reference books for teachers.



**420-4 School Library Activities and Practice.** Supervised practice and observation integrated with instruction in the typical activities of school librarianship; storytelling, publicity, developing units of library instruction, and work with students. Prerequisites: 308, 403, 405, or 406 and 407.

**440-2 Photography for Teachers.** Techniques of picture-taking and the preparation of color slides of community resources for use in classroom instruction and for school public relations.

**445-4 Preparation of Teacher-Made Audio-Visual Materials.** Laboratory practice in the preparation of bulletin boards, opaque materials, models, slides, recordings, felt-boards, and other graphic materials. Prerequisite: 417 or consent of instructor.

**448-4 Supervision and Administration of an Audio-Visual Program.** Provides professional information and training for anyone who has administrative responsibilities for an audio-visual program. For teachers, coordinators, or directors. Prerequisite: 417 or consent of instructor. C

**450-2 Classroom Teaching with Television.** Classroom utilization of open and closed circuit television. Emphasis is placed on the changed role of the classroom teacher who uses television. Evaluation of programming, technicalities of ETV, and definition of responsibilities are included. Demonstration and a tour of production facilities are provided. C

**457-4 Radio and Television in the Classroom.** Educational programs and their value to the teacher in the classroom. Sample tapes of radio programs and kinescopes are used.

**458-4 The Medium of the Motion Picture.** A study of the full range of expression by motion pictures including documentary, theatrical, educational, experimental, and industrial films. Representative films are screened.

**470-4 Programmed Instruction.** The principles and practice of writing both linear and intrinsic types of programmed instruction with emphasis on pictorial and performance branches. Individual experience in planning and producing programs.

**510-4 Mass Communications in Education.** The use of mass media in the classroom. Includes radio, TV, comic books, newspapers, magazines, motion pictures.

**514-4 Survey of Research and Development in Instructional Materials.** Advanced readings in research in instructional materials and the practical application of findings. Prerequisites: 405, 406, 417 or consent of instructor.

**523-4 Seminar on Junior College Librarianship.** Problems of particular significance to the junior college librarian: organization, materials, responsibilities, standards, and evaluation. C

**530-4 History of Books and Libraries.** The evolution of the printed book and the rise and development of modern libraries.

**546-4 Integration of Audio-Visual Materials in the Classroom.** Selection of materials on the basis of curricular needs. Techniques of evaluating each type of audio-visual material for use in the classroom. Structured for both the audio-visual administrator and the class room teacher. The principles and practices of integrating audio-visual materials into the curriculum are discussed, also the problems, annotations and classification of evaluated materials. Prerequisites: 417, consent of instructor.

**547-4 School Film and Filmstrip Production.** Simplified techniques for teachers and audio-visual coordinators who may need to produce school-made films and filmstrips to meet local school problems. Prerequisites: 417 and 440 or consent of instructor.

**548-4 Supervision and Administration of an Audio-Visual Program.** Provides professional information and training for persons with administrative responsibilities at the district or unit level. For directors of Instructional Materials and Audio-Visual Centers. Prerequisite: 417 or consent of the instructor. E

**549-4 Visual Learning.** Learning from pictures in the classroom, the design of still and moving pictures, pictures used in testing perception, and the place of pictures in advertising and communication. Prerequisite: consent of instructor.

**554-4 Administration of an Instructional Materials Center.** Based on the concept of a single agency in the school that encompasses all forms of instructional materials. It is designed to further the training of specialists in the supervision and administration of integrated audio-visual and library programs. Prerequisite: 403.

**560-4 Seminar in Instructional Materials.** Designed to give advanced graduate stu-

dents an opportunity to investigate and discuss topics in instructional materials before the seminar group. Topics selected would depend on background and interest of individuals. Prerequisite: consent of instructor.

**576-2 to 8 Problems in Instructional Materials.** Opportunity for individual study of selected problems. Prerequisite: consent of instructor. C

**599-5 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

## JOURNALISM

**401-3 International Journalism.** A study of the history, development, current status, and implications of the press and news services of other countries and their relationship to the international communications system. C

**420-2 to 4 High School Journalism Clinic.** For public school teachers. C

**421-4 School Publications.** Designed for the prospective journalism teacher or high school publications director. Deals with practical production problems of newspapers and yearbooks. C

**422-3 Teaching High School Journalism.** Teaching methods of journalism in secondary schools, organization and course of study, bibliography, use of journalism courses for school publications production. C

**432-3 Communication Agencies and Public Opinion.** The individual in mass society; the press and other mass communication media. C

**433-3 Measurement of Public Opinion.** The sampling survey as a research tool; survey methodologies. C

**440-3 Content Analysis.** Theory and practice of various systems designed to reveal the orientation of editorial material in the mass media. C

**442-3 The Law of Journalism.** Legal limitations and privileges affecting communications; fair comment, criticism, contempt of court, right of privacy, copyright, and legal provisions affecting advertising. C

**449-2 Practicum.** Study, observation, and participation in publication supervision. Work required on *The Egyptian* newspaper. C

**479-3 Role of Advertising in our Society.** An exhaustive analysis of the literature covering such topics as: definitions and scope of advertising; advertising and the press; advertising as a social and economic force; evaluation of advertising; policies as related to the practices of specific business firms. C

**495-3 Book Reviewing.** Theory and practice in reviewing modern books; study of newspapers and magazines devoted entirely or in part to this type of journalism. C

**499-3 News Analysis in the Classroom.** A study of the relationship of the newspaper to other high school coursework. Time spent in developing ways of integrating the newspaper in the classroom. C

**501-3 Literature of Journalism.** Critical reading of selected books relating directly and indirectly to journalism; lectures; reviews; discussions. C

**530-2 Seminar in Press Freedom.** Observation of the comment function performed by the daily newspaper as related to current issues; role of the editorial writer, syndicated columnist, and cartoonist. C

**532-4 Seminar in Public Opinion and Propaganda.** Message strategies and audience factors in attempts at mass persuasion. Implications for the press. C

**533-1 to 4 Research Problems in Journalism.** Individual work on selected problems for research. C

**540-3 Philosophy of Journalism.** A study of journalistic ethics with emphasis on concepts of freedom and responsibility and the development of journalistic standards. Consideration given to study of the responsibility of press in modern society. C

**545-3 Studies in Journalism History.** A critical analysis of the literature in the context of the social and intellectual history of the times. C

**590-3 Seminar in Journalism History.** Analysis of and practice in scholarly writing in the field of journalism history. C

**595-0 Graduate Seminar.** Discussions of matters relating to graduate study, research, departmental and university requirements. Guest lecturers will discuss their research activities and areas of general interest to journalism graduate students. Required each quarter for all journalism graduate students. C



**599-1 to 8 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C  
**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## MANAGEMENT

**421-4 Management of Business Finance.** The principal problems of managing the financial operations of an enterprise. Emphasis upon analysis and solutions of problems pertaining to policy decisions. Scope includes both short-term working capital and long-term financing. Prerequisite: 320. E

**428-4 Life Insurance.** Particular attention given to policy forms and provisions, reserve and investment problems, company organization, legal aspects, taxation, and personal and business needs. Prerequisite: 327. C

**430-4 Human Relations and Organizational Behavior.** The study of human problems in administration; individual, group, intergroup and organizational behavior under dynamic environment conditions. Theory and case analyses. Prerequisite: 340. C

**431-4 Organization Theory and Practice.** A study of classical and modern theories concerning complex organizations. Particular emphasis on processes and issues of dividing work, achieving coordination, and organizational change and adaptation. Prerequisite: 340 or consent of instructor. C

**440-4 The Management Process.** Analysis of management theories and the administrative process. Specific managerial activities are analyzed and discussed. Functional relationships in administered organizations are explored. Restricted to Master of Business Administration students.

**442-4 Management of Data Processing Systems.** A systematic examination of the principles and practices of data processing management. Includes installation layout, employment requirements, machine utilization, scheduling, work loads, interdepartmental relations, legal considerations, etc. Prerequisite: 240. E

**451-4 Methods of Quantitative Analysis.** Introduction to modern mathematical technologies applicable to solving business problems. Methods reviewed include symbolic logic, linear algebra and finite mathematics. Restricted to Master of Business Administration students.

**452-4 Business Operations Analysis.** Analysis of business operations and management problems emphasizing problem formulation, performance measures, decision criteria and various mathematical models and their application; linear programming, game theory etc. Prerequisites: 340 and 451 or consent of instructor. C

**455-4 Programming for Digital Computers.** Computer organization and characteristics, machine language-coding, flow charts, subroutines, optimum and symbolic coding, compilers and interpretative systems. Laboratory uses Computing Center equipment. Prerequisite: consent of instructor. C

**460-4 Work Measurement For Wage and Salary Control.** Research design and methodology for wage and salary administration in an organization; fundamental considerations in evaluating jobs and positions; compensation methods and wage incentive systems. Prerequisite: 385. C

**461-4 Management Decision Making.** Survey of problem solving theories and methods; decision information and systems models and applications. Analysis of administrative behavior in the decision process within formal organizations; socio-economic constraints and their interaction. Prerequisite: senior standing or consent of instructor. C

**472-4 Small Business.** Small business analysis, primarily through case studies of business financing, location, organization, merchandising practices, records, government regulation, and taxes.

**473-4 Business Enterprise and Public Policy.** A social and legal evaluation of the federal laws designed to stimulate competition, emphasizing the anti-trust and fair trade laws. Prerequisite: senior standing. E

**474-4 Management Responsibility in Society.** Relationship of profit and service objectives of management and their limitations on management authority. Resolution of business-society conflicts with external environmental groups through socially responsible management. Prerequisite 340. C



**475-4 Budgeting and Systems.** Budgeting and system as aids in coordinating and directing business operation. Prerequisites: 320, Accounting 251c. E

**479-4 Problems in Business and Economics.** Applications of economic theory and tools of analysis to practical business problems. Cost and demand functions are analyzed from a policy standpoint. Prerequisite: Senior standing.

**480-4 Labor Law Development and Problems (C); 480-4 Recent Problems in Labor Law (E).** Social, economic, and legal evaluations of recent labor problems, court decisions, and legislation. Long-run concern is on legislative impact on manpower planning, dispute settlement, and utilization of employment resources. Prerequisite: Business Law or Economics 310 or Government 395.

**481-4 Administrative Management (C); 481-4 Administrative Policy (E).** Integration and analytical application of business core courses to comprehensive business cases. Emphasis on policy issues in the identification and resolution of business problems. Prerequisite: 340.

**483-4 Advanced Production Management.** Internal problems of managerial control of production including recent developments in theory and techniques; case material will be utilized for the development of analytical ability. Prerequisite: 380.

**485-4 Problems in Personnel Management.** Analysis of problems in personnel administration arising from current developments in organization; case problems and special reports; and personnel practices. Prerequisite: 385.

## MARKETING

**401-4 Problems of Retailing.** Emphasizes application of managerial marketing concepts to the solution of typical retailing problems. Prepared retail management cases are analyzed along with individual reports on current retailing problems. Prerequisite: 329 or 450. C

**438-4 Sales Management.** Developing and training a sales force. The different types of sales forces. Managing sales functions: determining salesmen's territories, quotas, compensation. Budget preparation. Development and implementing the merchandise plan. Prerequisite: 325 or 450. C

**439-4 Industrial Marketing Management.** Designed to give an over-all view of the field of Industrial Marketing. Additional emphasis to be placed on decision criteria. Prerequisite: 325, 336. C

**450-4 Introduction to Managerial Marketing.** Designed to give an over-all view of the field of marketing and the field of marketing policy decisions. Cases are used to illustrate theory covered. Prerequisite: Restricted to Master of Business Administration students.

**452-4 Physical Distribution Management.** Spatial relationships of plant capacity and storage facilities and their connecting link, transportation. Prerequisite: 341 or graduate standing.

**463-4 Advertising Management.** A study of advertising from the viewpoint of business management. Problems of integrating advertising into marketing programs and related advertising issues are emphasized. Prerequisite: 333 or 450. C

**470-4 Marketing Research.** A development of the concepts necessary for understanding and performing research in the area of marketing. The basic procedures and theories underlying research will be investigated, evaluated, and applied to marketing decision making. Such areas as market, advertising, and sales research are given consideration. Prerequisites: 371, Quantitative Methods 211. E

**471-4 Advertising Policy and Management.** Advertising strategy, planning, research and its relationship to other marketing tools will be covered. Emphasis is placed on problems faced by marketing and business executives in administering the advertising effort. Prerequisite: 470. E

**472-4 Sales Policy and Management.** Content will center around the organization and operation functions of salesmen and sales managers (including all echelons from the general marketing managers to the territory sales men). Problem areas such as sales department organization, recruiting salesmen, motivating and supervising salesmen, sales territory design and coverage, appraising salesmen's performance, etc., are included. Prerequisite: 470. E

**473-4 Advanced Marketing Management.** An advanced course in managerial marketing which is designed as a capstone course for marketing majors. The purpose is to develop the student's ability to identify marketing problems, investigate alternative solutions, and render decisions. Prerequisites: Senior standing. This course should be the final course taken by the undergraduate marketing major. E

**490-4 Marketing Research and Analysis.** A nonmathematical development of the basic procedures, methods, and theory underlying analysis of primary and secondary market data. Prerequisites: 325, or 450 and statistics. C

## MATHEMATICS

**400-3 History of Mathematics.** An introduction to the development of major mathematical concepts. Particular attention given to the evolution of the abstract concept of space, to the evolution of abstract algebra, to the evolution of the function concept, and to the changes in the concept of rigor in the development of mathematics from 600 B.C. Prerequisite: 150b (E), 320a or consent of instructor (C).

**407-3 Introduction to Partial Differential Equations.** A continuation of 305. Topics in applied mathematics including linear partial differential equations, Bessel functions, and vector analysis. Prerequisite: 305b.

**410-16 (4,4,4,4) Statistical Analysis.** For students in fields using statistical methods but who are not required to take calculus. Includes (a) elements of probability, estimation, and testing hypotheses; (b) the general linear model (multiple linear regression, analysis of variance, analysis of covariance) and nonparametric statistics; (c) design of experiments; (d) sample survey techniques. May not be used to satisfy requirements for a mathematics concentration. Three lectures and 2 laboratory hours per week. Must be taken in either a,b,c,d or a,b,d,c sequence. Prerequisite: GSD 108c or 114b.

**413-4 Solid Analytic Geometry.** An algebraic study of equations of the first and second degree in three variables, with applications to geometry. Systems of planes; equations of lines in symmetric and parametric form. Spheres, cylinders, surfaces of revolution. Matrix algebra; real orthogonal and symmetric matrices. Coordinate transformations; orthogonal similarity. Quadratic forms and quadric surfaces; invariants; principal axes and planes. Prerequisite: 252b or consent of chairman.

**415-4 Non-Euclidean Geometry.** An introduction to hyperbolic and elliptic plane geometry and trigonometry. Emphasis given to the nature and significance of geometry and the historical background of non-Euclidean geometry. Prerequisite: 252a. E

**421-6 (3,3) Linear Algebra.** The theory of determinants and systems of linear equations; vector spaces, linear independence, bases, dimension; linear transformations, change of base, similarity; quadratic and Hermitian forms, orthogonal, and unitary transformations; triangular and diagonal form; eigenvalues and eigenvectors; normal matrices; nilpotent and idempotent matrices, the spectral theorem. Must be taken in a,b sequence. Prerequisite: 252b.

**425-3 Theory of Numbers.** Topics in elementary number theory, including properties of integers and prime numbers, divisibility. Diophantine equations, and congruence of numbers. Prerequisite: 320a.

**426-6 (3,3) Mathematical Logic.** (Same as Philosophy 426.) (a) Matrix and set theoretic development of the propositional calculus, many-valued logics, modal logics. Completion and consistency proofs for the propositional calculus. (b) A formal development of the predicate calculus and related problems. Must be taken in a,b sequence. Prerequisite: 320a or consent of instructor.

**428-6 (3,3) Boolean Algebra and Switching Theory.** An introduction to Boolean algebra with applications to switching circuits, set theory, and logic; Boolean functions and canonical forms; Boolean rings and algebras; linear graphs; partially ordered sets and lattices; theory of simplification and design of combinational and sequential circuits. Must be taken in a,b sequence. Prerequisite: 320a or consent of instructor. C

**430-4 Projective Geometry.** Introduction to the fundamental concepts of projective geometry. Topics usually include the study of conics, polar systems of conics, homogeneous coordinates, cross-ratio, harmonic sets, duality, projectivities, and involutions. Prerequisite: 252a or consent of instructor.



**433-3 Theory of Point Sets.** General properties of sets; topology of plane sets; closed sets and open sets in metric spaces, homeomorphisms and continuous mappings, connectedness. Prerequisite: 252b and 6 credits in courses numbered 300 or higher, or consent of instructor.

**440-2 to 4<sup>1</sup> Modern Algebra for Teachers.** An introduction to algebra as a logical system, including groups, rings, and fields. Prerequisite: consent of instructor.

**442-2 to 4<sup>1</sup> Survey of Geometry.** A survey of geometry, including projective geometry, topology, etc. Prerequisite: consent of instructor.

**444-2 to 4<sup>1</sup> Sets, Functions, and Relations.** Basic ideas of sets, set algebra, elementary logic, relations and functions, graphing. Prerequisite: consent of instructor. C

**445-2 to 4<sup>1</sup> Fundamental Concepts of Calculus.** A careful study of the basic concepts of calculus, offered as part of the special graduate program for secondary school teachers. Prerequisite: consent of instructor.

**446-2 to 10 Structure of Mathematics.** A course to assist experienced teachers in extending their understanding of mathematics. (a) Elementary School Mathematics; (b) Junior High School Mathematics. Does not count credit toward a mathematics concentration. Prerequisites: experience in teaching and consent of instructor. E

**447-4 The Structure of Secondary School Mathematics.** A course to assist experienced secondary school teachers in extending their understanding of mathematics. (This course does not count toward a mathematics concentration.) Prerequisite: experience in secondary teaching and consent of instructor. E

**452-9 (3,3,3) Advanced Calculus.** Fundamental concepts of analysis: limits, continuity, differentiation, and integration. Major topics include partial differentiation, vector analysis, Riemann-Stieltjes integrals, multiple integrals, infinite series, improper integrals, uniform convergence, Fourier series, and line and surface integrals. Must be taken in a,b,c sequence. Prerequisite: 252b.

**455-3 Analytic Functions with Applications.** A course in the elements of the theory of functions of a complex variable with stress on techniques and applications. Topics include a discussion of analytic functions, contour integration, and conformal mapping. Prerequisite: 252b.

**458-6 (3,3) Finite Mathematics.** An introduction to topics in finite mathematics such as logic, sets, probability, linear algebra, and Markov chains. This course is designed for students preparing for high school teaching and for advanced students in the behavioral sciences. Prerequisite: 252a or consent of instructor.

**460-4 Modern Geometry.** Advanced topics in Euclidean geometry by the synthetic method. Topics include the nine-point circle, Simson line, theorems of Ceva and Menelaus, coaxal circles, harmonic section, poles and polars, similitude, and inversion. Prerequisite: 20 hours of college mathematics.

**475-9 (3,3,3) Numerical Analysis.** Introduction to approximation methods including finite differences and interpolation; numerical differentiation and quadrature; least squares approximation; numerical solution of linear and non-linear systems; numerical integration of systems of ordinary and partial differential equations. Emphasis upon error analysis throughout. Must be taken in a,b,c sequence. Prerequisites: 305a or 252b and consent of instructor.

**480-10 (4,3,3) Probability.** Introduction to probability theory. Includes the algebra of probabilities; discrete and continuous distributions, limit theorems, generating functions, and some elements of stochastic processes. Must be taken in a,b,c sequence. Prerequisite: 252b.

**483-12 (4,4,4) Introduction to Mathematical Statistics.** A mathematical development of the elements of statistical theory. (a) Probability distributions, generating functions, and limit theorems. (b) Statistical inference: estimation, tests of hypotheses, general linear hypothesis. (c) Design of experiments—a mathematical model approach. Must be taken in a,b,c sequence with the exception that 480a, 421a, and

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<sup>1</sup> These courses are open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of mathematics or the director of the institute.



consent of instructor may replace 483a. A student will not be allowed university credit for both 480a and 483a. Prerequisite: 252b.

**501-9 (3,3,3) Real Variables.** A basic course in mathematical analysis. (a,b) The real number system; fundamental theorems in limits and continuity; open, closed, compact, and connected sets in Euclidean and metric spaces; the Riemann and the Riemann-Stieltjes integrals and functions of bounded variation; infinite series; uniform continuity; uniform convergence of series and improper integrals; arcs and curves; implicit function theorem; multiple integrals. (c) The general theory of measure and integration from an abstract point of view. Additive classes of sets, Borel sets, measurability, measure and outer measure; integrable functions, convergence theorems; absolute continuity and the Radon-Nikodym theorem; Fubini's theorem. Must be taken in a,b,c sequence. Prerequisite: 452c.

**505-9 (3,3,3) Theory of Ordinary Differential Equations.** Existence and uniqueness theorems; general properties of solutions; linear systems; geometric theory of nonlinear equations; stability and control theory; self-adjoint boundary problems; oscillation theorems. Must be taken in a,b,c sequence. Prerequisite: 501b and 421a or consent of instructor. C

**507-9 (3,3,3) Partial Differential Equations.** Classification of partial differential equations; separation of variables; elementary solutions of the heat and wave equations; potential theory; n-dimensional parabolic operators. Must be taken in a,b,c sequence. Prerequisite: 452c. C

**510-4 Foundations of Mathematics.** A critical survey of the logical basis of mathematical systems. Deductive processes, mathematical proof theory, axiomatics, nature of model systems, principles of theory construction, views concerning the nature of mathematics. Prerequisites: 252b or consent of instructor.

**520-9 (3,3,3) Modern Algebra.** Displays some of the richness of algebra when mathematical systems other than the traditional one based upon the real numbers are considered. Abstract theory of groups, rings, and fields, with particular attention to examples from permutation groups, matrices, vector spaces, and polynomial and other function spaces; rational numbers and fields, complex numbers, unique factorization, algebraic number fields. Must be taken in a,b,c sequence. Prerequisites: 320a, 421a.

**528-9 (3,3,3) Theory of Automata.** Sequential machines: finite vs. infinite, complete vs. incomplete, deterministic vs. stochastic; submachines; strong connectivity; equivalence of states and machines; state minimization; experiment theory; realization and decomposition. Monadic algebras and automata: representation by equivalence and congruence relations; regularity of sets of sequences; representation by semigroups; source, primary and cycle; automata homomorphisms, characterization of automorphisms on automata; automata-representation of groups; quotient automata. Must be taken in a,b,c sequence. Prerequisite: 428b. C

**530-6 (3,3) (C); 530-3 to 6 (E) Point Set Topology.** Topological spaces; denseness, category; open, closed sets, Borel sets; separation axioms; subspaces; continuity; lattice of topologies; countability axioms; connectedness, compactness, local properties; regularity to complete normality. Hilbert space, metrizable spaces; extension theorems; well-ordering; product spaces. Must be taken in a,b,c sequence. Prerequisite: 433 or 501b.

**531-6 (3,3) Algebraic Topology.** Abstract complexes and polyhedra; chains and co-chains; homology and cohomology of polyhedra; simplicial functions; simplicial approximation; induced homomorphisms; Eilenberg-Steenrod axioms; singular homology theory. Must be taken in a,b sequence. Prerequisites: 530a and 520a. C

**532-3 to 18 Advanced Topics in Topology.** Materials to be selected from special areas of topology; such as topological groups, topological dynamics, and uniform spaces. Prerequisite: 530b. C

**536-3 Differential Geometry.** Curvature, torsion, the Frenet formulas, and intrinsic equations of curves in three-dimensional Euclidean space; applications to kinematics. Curves on a surface; first and second fundamental forms; normal sections and Meusnier's theorem; mean and total curvature. Prerequisite: 452c.

**540-4<sup>1</sup> Groups and Linear Transformations.** A study of groups with their connection with the movements of regular plane figures, matrices, vectors, determinants with

their interpretation and use in analytic geometry, and ruler and compass constructions. Prerequisite: 440 or equivalent.

**543-4 Probability for Teachers.** An introduction to the basic concepts of probability theory. Major topics include algebra of events, probabilities in a finite sample space, conditional probabilities and stochastic independence, random variables and their distribution, mathematical expectation, standard deviation, covariance, special distributions. This course is open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of the Department of Mathematics or the director of the Institute. C

**545-4<sup>1</sup> Intermediate Analysis for High School Teachers.** A rigorous development of differentiation and integration of continuous real functions. Topics include sequences, series, limits, real continuous functions, integrable functions on a closed interval. Prerequisite: consent of instructor.

**546-4<sup>1</sup> Convex Figures.** An analysis of methods of the theory of plane convex bodies. Topics covered include Helly's Theorem, continuous functions, isoperimetric problems, curves of constant width. Prerequisite: 440 or consent of instructor. C

**547-2 to 4<sup>1</sup> The Secondary School Mathematics Program.** An analysis of contemporary trends in curriculum development in secondary school mathematics, including a study of textbooks, teaching aids, and programmed materials. Prerequisite: consent of instructor. C

**550-1 to 10 Seminar.** Supervised study and preparation of reports on assigned topics. Reports presented for class discussion. (a) Algebra. (b) Geometry. (c) Analysis. (d) Probability and Statistics. (e) Mathematics Education. (f) Logic and Foundations. (g) Topology. Prerequisite: consent of instructor.

**551-9 (3,3,3) Functional Analysis.** The theory of linear transformations between infinitely dimensional topological vector spaces, including Banach and Hilbert spaces, with various applications. The basic notion for the study is that of a functional or continuous scalar-valued linear transformation. Must be taken in a,b,c sequence. Prerequisites: 501c and 421b. C

**555-9 (3,3,3) Complex Variables.** Classical and modern analytic function theory, including Cauchy-Riemann equations, Cauchy-Goursat theorem, conformal mapping, normal families, Riemann mapping theorem, calculus of residues, analytic continuation, Riemann surfaces, entire functions. Must be taken in a,b,c sequence. Prerequisite: 452c.

**560-6 (3,3) Calculus of Variations.** An introduction to the basic concepts and techniques of the calculus of variations including the classical necessary conditions for an extremum of a functional, general end point conditions, the second variation, fields, sufficiency conditions, and applications. Must be taken in a,b sequence. Prerequisite: 452c. C

**580-9 (3,3,3) Mathematical Methods of Statistics.** A presentation of probability and statistical inference based on an axiomatic approach and employing advanced mathematical concepts. Topics include the theory of measure and integration in  $R_n$ , foundations of probability, random variables and distributions in  $R_n$ , sampling distributions, tests of hypotheses, theory of estimation. Must be taken in a,b,c sequence. Prerequisite: 452c. C

**592-3<sup>1</sup> Research in Mathematics Education.** Critical study of research papers in the field of secondary mathematics education. Training in research and writing techniques as they pertain to the secondary mathematics program. Prerequisite: consent of chairman. C

**595-1 to 10 Special Project.** An individual project, including a written report. (a) in algebra; (b) in geometry; (c) in analysis; (d) in probability and statistics; (e) in mathematics education; (f) in logic and foundations; (g) in topology.

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<sup>1</sup> These courses are open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of mathematics or the director of the institute.



599-1 to 9 **Thesis.** Minimum of 5 hours to be counted toward the Master of Arts degree.

600-1 to 48 **Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## MICROBIOLOGY

401-1 **Seminar.** C

403-5 **Medical Bacteriology.** A general survey of the mechanisms of infection, epidemiology, and immunity and the specific application of these principles to the symptomatology, diagnosis, treatment, and control of the more common bacterial infections of man. 3 hours lecture and 4 hours laboratory. Prerequisites: 301, 302 or equivalent. C

422-5 **Microbiology of Foods.** The relationships of microorganisms to the preparation and preservation of foods with consideration of the laws governing sanitation, chemical preservatives, and fair dealing of the food producer. 3 hours lecture, 4 hours laboratory. Prerequisite: 301. C

423-5 **Industrial Fermentation.** The application of the chemical activities of microorganisms to the industrial production of beverages, foods, antibiotics, and various commercial chemicals. 3 hours lecture, 4 hours laboratory. Prerequisites: 301 and organic chemistry. C

424-4 to 5 (2 to 3, 2) **Soil Microbiology.** C

425-3 **Biochemistry and Physiology of Microorganisms.** The chemical basis of physiological functions in microbial cells with emphasis on the pathways of metabolism common to all living things. 3 hours lecture. Prerequisites: 301 and organic chemistry. C

426-2 **Biochemistry and Physiology of Microorganisms.** 4 hours laboratory. Prerequisite or corequisite: 425. C

441-6 **Virology.** Properties, cultivation and titration of viruses and rickettsiae; cellular infection, multiplication and liberation of virus; immunological reactions and serological identification; hemagglutination and interference phenomena. Consideration of selected viral and rickettsiae diseases of animals. 3 hours lecture, 6 hours laboratory. Prerequisite: 403. C

451-6 **Immunology.** Natural and acquired immunity; antigens, antibodies and antigen-antibody reactions; hypersensitivity; practical use of immunity and hypersensitivity. 3 hours lecture, 6 hours laboratory. Prerequisite: 403. C

500-1 **Seminar.** C

501-2 **Genetics of Microorganisms.** The general principles of genetic analysis with accent on tetrad analysis of yeast. 2 hours lecture. C

503-2 **Cytology of Microorganisms.** Problems involved in the behavior of chromosomes at meiosis with special consideration of genetical data. 2 hours lecture. C

504-5 **Methods of Microbiological Research.** The recognition and plan of attack upon unsolved problems in microbiology. 3 hours lecture and 4 hours laboratory. C

506-2 **Bibliographical Methods in Microbiology.** Methods of communication of information in microbiology. 1 hour lecture, 2 hours laboratory. C

507-8 **BSCS High School Biology.** C

511-1 to 15 **Research.** C

525-3 **Biochemistry and Physiology of Microorganisms.** A continuation of 425. 3 hours lecture. C

526-2 **Biochemistry and Physiology of Microorganisms.** A continuation of 426. 4 hours laboratory. Prerequisite or corequisite: 525. C

528-1 to 10 **Readings in Microbiology.** Supervised readings for qualified graduate students. C

550-4 **Microbiology for High School Teachers.** Principles of microbiology with emphasis on the relation of the microbial world to plants and animals. Information regarding materials and methods applicable to high school biology courses. 2 lectures and 2 laboratory periods or field trips per week. Offered only for N.S.F. students. C



**551-2 Intermediate Microbiology for High School Teachers.** Continuation of 550 with emphasis on recent developments in microbial genetics, aspects of medical bacteriology, immunology, and virology. Two lectures and occasional demonstrations. C  
**599-3 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C  
**600-3 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## MUSIC

**411-9 (3,3,3) Music Literature.** (a) Symphonic: A study of the development of the symphony and the symphonic poem. (b) Choral: The literature of the larger vocal forms such as the cantata and oratorio. (c) Chamber Music: Study of chamber music from the Renaissance to the present.

**414-2 to 6 Collegium Musicum.** Practicum in the preparation and performance of music from early times to the classical period. Prerequisite: Music major and/or consent of the department.

**420-1 Music Education Practicum.** A shop-laboratory course dealing with the selection, adjustments, maintenance, and repair of musical instruments.

**440-1 to 4 (C); 440-2 to 4 (E) Private Applied Music.**

a. Violin

b. Viola

c. Violoncello

d. String Bass

e. Flute

f. Oboe

g. Clarinet

h. Bassoon

i. Saxophone

j. Percussion

k. Piano

l. French Horn

m. Trumpet

n. Trombone

o. Tuba

p. Baritone

q. Voice

r. Organ

s. Harpsichord

t. Harp

E

E

Applied music for graduate credit is offered at the 400 and 500 levels in the areas listed above. Credit is given at 1 to 4 hours per quarter on each level. May be repeated each quarter of graduate study. Students with majors in performance usually take 4 hours per quarter at the 500 level; majors in music education and all minors usually take 2 hours at the 400 level. Prerequisite for 440 and 540: audition or consent of instructor.

**441-6 (2,2,2) Counterpoint.** (a) 16th Century Counterpoint. Species counterpoint and creative writing in the style of Palestrina and his contemporaries. Prerequisite: 205c or consent of instructor. (b) 18th Century Counterpoint. Analysis and creative writing in the contrapuntal-harmonic technique of Bach and his contemporaries. Prerequisite: 205c or consent of instructor. (c) Canon and Fugue. Analysis and creative writing of the larger imitative forms. Prerequisite: 441b. C

**442-6 (3,3) Contrapuntal Forms.** (a) Analysis and creative writing in the style of Palestrina and his contemporaries and the contrapuntal-harmonic technique of Bach. (b) Analysis and creative writing of the larger imitative forms. Must be taken in a,b sequence. Prerequisite: 205c E

**451-3 (C) Teaching of General Music, Secondary School; (E) Teaching of General Classroom Music.**

**455-2 to 6 Elementary Music Education Workshop.**

**461-2 (C), 6 (3,3) (E) Teaching Techniques and Materials for the Beginning and Intermediate Levels.** Designed to meet the needs of applied students in which the problems of private studio teaching and college level teaching are discussed.

**462-2 Teaching Techniques and Materials for the Advanced Student.** Designed to meet the needs of applied students in which the problems of private studio teaching and college level teaching are discussed. (Continuation of Music 461.) C

**465-9 (3,3,3) (C); 465-3 (E) Development and Teaching of Strings.** Place and function of string education in the elementary and secondary schools. Techniques of heterogeneous and homogeneous string teaching. Developing and sustaining interest in the string program. Resource aids. Prerequisite: senior standing.

- 481-2 to 6 Readings in Music Theory.
- 482-2 to 6 Readings in Music History and Literature.
- 483-2 to 6 Readings in Music Education.
- 501-3 Introduction to Graduate Study in Music. Basic bibliographical and historical research techniques in music theory, literature, and education.
- 502-6 (2,2,2) (C); 502-9 (3,3,3) (E) **Analytic Techniques.** Analysis of representative works chosen from the Baroque, Classical, Romantic, and Modern eras.
- 503-3 **Objective Research Techniques in Music Education.** C
- 504-3 **Music of the Middle Ages and Renaissance.** Sacred and secular monody from its beginnings; the rise of polyphony; the development of instrumental and vocal forms in the Middle Ages and Renaissance. C
- 505-3 **Music of the Baroque Period.** Opera, oratorio, cantata, and instrumental music in the period 1600 to 1750; the development of vocal and instrumental forms culminating in the works of Bach and Handel. C
- 506-3 **Music of the Classical Period.** Development of opera, the symphony, the sonata, and chamber music in the 18th and early 19th century with particular emphasis on Haydn, Mozart and Beethoven. C
- 507-3 **Music of the Romantic and Impressionistic Periods.** Development of opera, the symphony, the symphonic poem, the sonata, and chamber music in the 19th and early 20th centuries. Rise of nationalism and impressionism. C
- 508-3 **Music of the Twentieth Century.** The heritage of 20th century music; study and analysis of musical philosophies of contemporary composers. C
- 509-3 **The History and Philosophy of Music Education.** A study of the historical and philosophical evolution of music education and the identification of current forces, issues and trends influencing the profession. C
- 512-3 **History of Opera.** The development of opera as a form, with a detailed study of operas since 1600. C
- 515-3 **Music of Beethoven** (C); 515-3 **Twentieth Century Literature** (E). Survey of the life and works of Beethoven; emphasis upon the evaluation of his musical styles through analysis of representative works.
- 518-3 **Pedagogy of Music Literature.** Principles of teaching music literature and music appreciation courses at the college level.
- 520-3 **American Music.** The development of music in America from colonial days to present.
- 522-3 **Seminar: Music History and Literature.** Advanced study in special periods of music history-literature.
- 531-2 to 9 **Advanced Composition.** Composition in the larger forms for solo and ensemble performance. Prerequisites: 312c, 342c, and consent of instructor. Required of all theory-composition majors 3 hours per quarter; elective credit for majors in other areas. C
- 535-3 **Contemporary Idioms.** Techniques of composition developed during the 20th century by composers of Europe and America.
- 540-1 to 4 **Private Applied Music.** (See Music 440)
- 545-3 to 9 **Philosophies of Music Theory.** An orientation of the philosophies of theory to the problems of pedagogy. Required of all theory-composition majors. C
- 550-2 to 4 **Supervision and Administration of Music—Elementary** (C); 550-8 (4,4) **Organization and Administration of the Music Education Program** (E).
- 551-2 to 4 **Organization and Administration of Music—Secondary.** C
- 553a-3 **Seminar in Choral Materials and Techniques.** C
- 553b-3 **Seminar in Instrumental Materials and Techniques.** C
- 553-6 (3,3) **Seminar in Materials and Techniques.** E
- 556-2 to 6 **Advanced Conducting.** Problems in score reading and interpretation. Laboratory conducting of larger ensembles.
- 560-2 to 4 (C); 560-3 (E) **Seminar in Music Education.** Trends, current practices, philosophies of music education.
- 566-1 to 4 (C); 566-4 (1,1,1,1) (E) **Instrumental Ensemble.** Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the major instrument other than solo literature.



**567-1 to 4 (C); 567-4 (1,1,1,1) (E) Vocal Ensemble.** Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the vocal music other than solo literature. Includes madrigal groups, choral ensembles, women's chorus, etc.

**568-2 to 12 Opera Workshop.** An intensive course in opera for voice majors, including the study and public performances of scenes and entire operas. C

**599-3 to 9 Thesis.**

## PHILOSOPHY

**406-4 Philosophy of Biology.** Leading concepts of biological sciences: species, evolution, life, organism and part, etc. Abstract ideas of biology are related, wherever possible, to specific experiments recorded in scientific literature. Prerequisites: 300 or 320, and three laboratory or field courses in the biological sciences or consent of instructor. C

**415-3 Logic of the Social Sciences.** Logical and epistemological examination of the social studies as types of knowledge. Basic problems in philosophy of science with major emphasis upon social science: relationship of theory to fact, nature of induction, nature of causal law, testability, influence of value judgments, etc. Intended for students with considerable maturity in a social science or in philosophy. C

**420-4 Advanced Logic.** A careful study of symbolic and discursive systems of logic: Aristotle, Spinoza, Boole, Whitehead, and Johnson. Prerequisites: 320 and consent of instructor. C

**426-6 (3,3) Mathematical Logic.** (See Mathematics 426.) C

**428-3 Logic of the Exact Sciences.** Critical study of the technical and philosophical problems associated with formal logic and its uses as a tool for model construction, for formalizations, reconstructions, and as an image of rational thought. Prerequisite: 426 or consent of instructor. C

**441-4 Philosophy of Politics.** (Same as Government 441.) Some of the central problems of modern political life, such as sovereignty, world government, authority and consent, the relations of economics and social studies to political theory. Prerequisite: GSC 102 or 340 or consent of instructor. C

**443-4 Philosophy of History.** Classical and contemporary reflections on the nature of history and historical knowledge as the basis for dealing with the humanities. Prerequisite: consent of instructor.

**460-4 Advanced Philosophy of Art.** The definition of art, its relations to science, culture, and morals; the various types of art defined. Familiarity with at least one of the fine arts is assumed. Prerequisites: GSC 207 or 360, and six courses in music, painting, sculpture, literature, or drama. C

**477-4 Latin American Philosophy.** A survey of philosophic thought in Latin America from colonial times through 19th century positivism and the reactions against it, up to recent trends. Reading of original texts in English translations. Discussions and reports. C

**478-4 Seminar in Latin American Thought.** (See Spanish 478.) C

**481-6 (3,3) 19th Century European Philosophy.** (a) Kant, Schopenhauer, and Hegel. (b) Nietzsche, Bergson, the Utilitarians, and latter day idealists. May be taken singly and in any sequence. C

**482-3 Recent European Philosophy.** Phenomenology, Positivism, Linguistic Analysis, and Existentialism. C

**484-12 (4,4,4) History of Western Political Theory.** (a) Ancient and Medieval. (b) Renaissance and Early Modern. (c) Recent. Any part may be taken alone. E

**487-4 American Political Ideas.** An historical study of the political ideas of leading American statesmen and publicists, and their resulting influences upon our government system. E

**490-2 to 12 Special Problems.** Hours and credits to be arranged. Courses for qualified seniors and graduates who need to pursue certain topics further than regularly titled courses permit. Special topics announced from time to time. Students are invited to suggest topics for individual study and papers or for group study. Consent of instructor in all cases required.



- 500-2 to 4 Seminar in Metaphysics.** Study of recent writers and current problems in metaphysics with the intent of familiarizing the student with the traditional problems of the area. C
- 501-2 to 4 Seminar in the Philosophy of Religion.** Analysis of a selected problem in philosophical theology or the phenomenology of religion, or of the work of a particular thinker. Recent seminars have been on Paul Tillich and Henry Nelson Wieman. C
- 515-3 Theory of Nature.** A critical examination of the presuppositions of the Western view of nature as indicating the need for a revision of causal determinism and the reintroduction of freedom into the spatio-temporal world. C
- 530-2 to 4 Seminar in Theory of Knowledge.** Examination of a contemporary writer or problem in epistemology. Special emphasis is given to the problem of the reliability and structure of scientific knowledge. C
- 540-3 Philosophy of Journalism.** (See Journalism 540.) C
- 570-3 Seminar in American Idealism.** C
- 581-2 to 4 Seminar in Plato.** A thorough study of several of the dialogues. Lectures on the system of Plato as a whole, discussions and reports on the readings. C
- 582-2 to 4 Seminar in Aristotle.** The philosophic ideas of Aristotle. Intensive reading of several texts, illustrating widely varied portions of his thought. C
- 585-3 Seminar in British Empiricism.** C
- 586-2 to 4 Seminar in Spinoza.** Analysis of the **Improvement of the Understanding** and the **Ethics**. Lectures relating Spinoza to the medieval tradition and to his contemporaries. Discussions and reports. C
- 587-3 Seminar in Hegel.** C
- 588-2 to 4 Seminar in Kant.** The three great **Critiques** in their relation to the development of Kant's total philosophy. Intensive study of one of the **Critiques**. C
- 589-2 to 12, 590-2 to 12 General Graduate Seminar.** For students having special interests in the history of philosophy and the original systematic development of philosophic ideas. Prerequisite: consent of instructor. C
- 591-1 to 5 Readings in Philosophy.** Supervised readings for qualified students. Consent of instructor required. C
- 599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C
- 600-3 to 48 Dissertation.** C

## PHYSICAL EDUCATION

- 400-4 Evaluation in Physical Education.** Historical background of measurement in physical education; selection and evaluation of contemporary testing devices; structure and use of tests; administering the testing program; and interpretation and application of results. Fulfills the tests and measurements course requirements for the Master of Science in Education degree. C
- 402-2 Organization and Administration of Intramural and Extramural Activities.** Planning intramural programs of sports; planning and coordinating extramural activities commonly associated with physical education.
- 403-4 The Adaptation of Physical and Recreational Activities to the Handicapped Individual.** Recognition of postural deviations; devising and planning programs for the physically atypical. C
- 404-4 The Teaching of Sports.** Teaching methods, officiating, organization, safety precautions, and selecting equipment for sports. C
- 405-4 Current Theories and Practices in the Teaching of Dance.** History and evolution of dance; place of dance in education. C
- 406-4 Basic Concepts of Physical Education.** The place of physical education in the school program, and the concepts underlying the program. (Required of all students not presenting the undergraduate courses 354 or 340.) C
- 407-4 Scientific Basis of Athletic Training.** Study of the factors which affect maximum human performance in athletic competition. The knowledge and application of scientific principles in preparing the athlete for maximum performance, in shielding him from possibly damaging sequelae, and in restoring him to maximum performance after injury. Consideration of the kinesiological, physiological, and

behavioral factors in athletics. Designed to increase the effectiveness of physical education personnel in teaching and coaching athletics. C

**408-2 to 4 Physical Fitness—Its Role and Application in Education.** Improvement of programs and teaching techniques involved in the development of various aspects of physical fitness. Units on postural status; body weight control; tension factors, causes, and control; exercise tolerance; and general body mechanics and control. C

**420-4 Physiologic Effects of Motor Activity.** The general physiological effects of motor activity upon the structure and function of body organs; specific effect of exercise on the muscular system. Prerequisite: Physiology 209 or equivalent.

**475-2 to 4 Individual Research.** The selection, investigation and writing of a research topic under supervision of an instructor. (a) Dance, (b) kinesiology, (c) measurement, (d) motor development, (e) physiology of exercise, (f) history and philosophy. C

**500-4 Techniques of Research.** Critical analysis of research literature; study of research methods and planning research studies. Prerequisite: 400 or concomitant registration in 400.

**501-4 Curriculum in Physical Education.** Principals and procedures for curriculum construction and revision; criteria for selecting activities and judging outcomes and the place of the physical education course of study within the total curriculum.

**502-4 Foundations of Motor Skills.** Application of physiological, kinesiological, and mechanical principles to intelligent control of large-muscle activities. Recommended background: a course in kinesiology.

**503-4 Seminar in Physical Education.** The course content and its procedures center around group discussions of controversial issues that currently exist in physical education and provide opportunities for practice in seeking unbiased solutions to professional problems.

**504-4 Problems in Physical Education.** Planning, conducting, and reporting original research studies. Prerequisite: 500 or equivalent (C); consent of instructor (E).

**508-3 Administration of Interschool Athletics.** Existing problems in interschool athletics, with particular attention to secondary school athletic programs. C

**509-4 Supervision of Physical Education.** The functions of supervision in physical and health education; basic principles and methods of supervision. Techniques and methods for increasing the effectiveness of the program at the elementary and high school levels.

**510-4 (2,2) Motor Development.** (a) Early patterns of motor behavior and the development of physical skills in childhood. (b) The development of physical abilities during adolescence. Individual differences in motor proficiency and factors affecting the acquisition of motor skills. Concepts of motor learning with inferences for improving instructional practices. C

**511-2 Analysis of Human Physical Movement.** Basic human movements as performed by individuals of different ages will be analyzed, and understanding of motor development at varying levels of skill in sports and dance will be analyzed. C

**525-1 to 6 Readings in Physical Education.** Supervised reading in selected subjects. Prerequisite: consent of instructor and chairman of department. Open only to last-quarter seniors and graduate students.

**599-3 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

**600-2 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## PHYSICS

**401-3 Mechanics.** Rigid body mechanics, normal coordinates, mechanics of continuous media, and advanced principles. Prerequisites: 301, Mathematics 407. C

**404-3 Introduction to Statistical Mechanics.** A brief treatment of the kinetic theory of gases; introduction to phase spaces and ensemble theory. Shows the connection between mechanical and thermodynamic concepts. Obtains a statistical interpretation of thermodynamic processes. Prerequisite: 301, 304 or consent of instructor. E

**404-6 (3,3) Physical Electronics.** Kinetic theory and statistical mechanics with applications to electronic conduction in solids, vacuum, and gases, electron emission



and ballistics; Bose-Einstein and Fermi statistics, electron theory of metals; semiconductors; quantum physical phenomena of the solid state. Prerequisites: 304, 305, 401 or consent of instructor. C

**405-3 Electronics.** Advanced theory and application of vacuum tubes and semiconductor devices as circuit elements in power supplies, oscillators, amplifiers, and shaping circuits. Prerequisites: 305 and 309 or consent of instructor. C

**410-6 (3,3) Introduction to Electromagnetic Wave Theory.** A theoretical study of electromagnetic wave generation, propagation, and detection, with applications to microwaves and modern optics. Prerequisite: 305, 310. C

**415-12 (3,3,3,3) Modern Physics.** Elements of wave mechanics, special relativity, atomic, molecular, and nuclear physics. Prerequisites: 301, 305, Mathematics 407 or consent of instructor. C

**415-12 (4,4,4) Modern Physics.** Elements of wave mechanics, atomic and nuclear physics, fundamental particles, and relativity. Must be taken in a,b,c sequence. Prerequisites: 300, 9 hours of mathematics numbered 300 or above. E

**418-1 to 4 Modern Physics Laboratory.**

**420-2 to 5 Special Projects.** Each student is assigned to a definite investigative topic. Adapted to advanced undergraduate students. Prerequisites: 301, 305.

**435-3 Plasma Physics.** Basic equations and conservation laws; first order orbit theory with applications to static and dynamic problems; small amplitude plasma waves; hydromagnetic shocks; collision effects; diffusion across a magnetic field; stability; coupling of plasmas and radiation. Prerequisite: 305. E

**445-8 (4,4) X-Ray Crystallography.** (a) Symmetry elements, development of space groups, reciprocal space, geometrical theory of diffraction, determination of lattice parameters, Fourier representations of periodic structure. (b) Production of x-rays, kinematical theory of x-ray diffraction, diffraction techniques, factors affecting the intensity of reflections, extinction contrast methods, introduction to the dynamical theory. Must be taken in a,b sequence. Prerequisite: 300. E

**450-3 Introduction to Solid-State Physics.** A study of the fundamentals of solid-state physics including classification of solids, interatomic and intermolecular forces, lattice energies, specific heats, lattice dynamics, free electron theory of metals, lattice defects, color centers, luminescence, magnetic materials, radiation damage, transport in ionic crystals. Fermi-Dirac statistics, Fermi distribution, and semiconductors. Prerequisites: 305, 415a; 304 or consent of instructor. E

**504-4 X-Ray Diffraction and Solid-State Physics.** C

**510-9 (3,3,3) Classical Mechanics.** Variational principles and Lagrange's equations; rigid body motion; special relativity; canonical equations, small oscillations including non-linear problems; perturbation methods; classical theory of fields. Prerequisite: 301 (E); 401 (C).

**511-9 (3,3,3) Mathematical Methods of Physics.** Elements of theory of analytic functions; differential equations and special functions of mathematical physics; solutions of boundary value problems by Hilbert space expansion. Prerequisite: Mathematics 407 or equivalent, or consent of instructor. C

**520-2 to 5 Special Projects.** Each student assigned a definite investigative topic requiring resourcefulness and initiative. Prerequisite: consent of instructor. C

**530-9 (3,3,3) Electromagnetic Theory.** Maxwell's Formalism of classical electromagnetism, application of electrostatics, magnetostatics, electrodynamics and radiation problems. Prerequisite: 305.

**531-9 (3,3,3) Quantum Mechanics.** Wave mechanics, matrix mechanics, transformation theory of quantum mechanics; angular momentum, perturbation theory, scattering theory. Prerequisites: 415, Mathematics 407 or consent of instructor.

**532-9 (3,3,3) Advanced Quantum Mechanics.** Introduction to quantum field theory, with emphasis on the quantum theory of radiation; covariant quantum electrodynamics; special topics, depending on the interests of students. Prerequisites: 531 and consent of instructor. C

**540-3 Nuclear Physics.** General nuclear properties, two body problems, nuclear forces, discussion of various models, reactions, and radioactive decay. Prerequisite: 415. E

**540-9 (3,3,3) Nuclear Physics.** Fundamental properties and systematics of nuclei,



scattering theory, the nuclear two body problem, nuclear models, electromagnetic properties of nuclei, particle radioactivity, nuclear reactions, the optical model. Prerequisite: consent of instructor. C

550-9 (3,3,3) **Atomic and Molecular Spectra.** Detailed quantum mechanical treatment of atomic and molecular spectroscopy. Prerequisite: consent of instructor. C

555-6 (3,3) **Materials Structure Analysis.** (a) X-ray diffraction techniques. (b) Crystal Structure analysis. Prerequisite: consent of instructor. C

560-3 **Statistical Mechanics.** Classical statistical mechanics, ensemble theory, quantum statistical mechanics with applications. Prerequisite: 404, 415. E

560-9 (3,3,3) **Statistical Mechanics.** Principles of classical and quantum equilibrium statistics; fluctuations; applications to specific problems of physics. Prerequisite: consent of instructor. C

570-3 **Solid State Physics.** Basic theory of the solid state including diamagnetism, ferromagnetism, paramagnetism, band theory, semiconductor theory, and superconductivity. Prerequisites: 415a,b, 450. E

570-9 (3,3,3) **Solid State Physics.** Fundamental concepts in solid state physics from advanced viewpoint, with illustrations drawn from current research. Prerequisite: consent of instructor. C

575-1 to 4 **Graduate Seminar.** Lectures on special topics to be given when a demand arises. Prerequisite: consent of instructor.

580-3 to 6 **Selected Topics in Physics.** Topics of special interest. Prerequisite: consent of instructor.

590-1 to 9 **Thesis.** C

## PHYSIOLOGY

410-15 (5,5,5) **Advanced Anatomy.** Dissection of the human body. Primarily for majors in physiology and other biological sciences. Not a premedical course. 2 hours lecture, 6 hour laboratory. C

414-4 **Anatomy and Physiology of Speech and Hearing Mechanisms.** The anatomy and physiology of the vocal apparatus. Primarily for majors in speech pathology. 3 hours lecture, 2 hours laboratory. C

415-8 (4,4) **Experimental Animal Surgery.** (a) Preparation of animals for surgery. Anesthesia, instruments, care of animal quarters, selected exercises. (b) Special surgical exercises. 2 hours lecture, 4 hours laboratory. Part b may be elected independently of a only by permission of the chairman. C

417-6 (3,3) **Principles of Pharmacology.** Action of drugs and other chemical substances upon the living organism. Physiological and biochemical events resulting from the action of drugs. Pharmacodynamics, chemo-therapy, toxicology, and therapeutics. Prerequisites: basic courses in chemistry and biological sciences. 2 hours lecture, 2 hours laboratory. C

430-12 (4,4,4) **Cellular Physiology.** The nature and mechanism of the living cell. Chemical and physical aspects of vital activity. Required for graduate majors in physiology. Recommended for students interested in biochemistry and biophysics. 3 hours lecture, 2 hours laboratory.

433-4 **Comparative Physiology.** Fundamental physiological processes and the manner in which they vary in various groups of animals. Recommended for majors in physiology and for students in other biological science. 3 hours lecture, 2 hours laboratory (C). 3 hours lecture, 3 hours laboratory (E).

440-3 **Electron Microscopy.** Lectures, demonstrations, and practical experience with the electron microscope. Fundamentals of specimen preparation. Open to students with advanced knowledge of any natural or physical science. 2 hours lecture, 2 hours laboratory. C

450-4 to 16 **Special Problems in Physiology.** Selected problems in various aspects of physiology. 8 hours laboratory. Open only by permission.

460-12 (4,4,4) **Mammalian Physiology.** Function and biochemical organization in mammals, especially man. Open to students with adequate courses in biological sciences and chemistry. (a) Blood, circulation, respiration. (b) Digestion, excretion, endocrines. (c) Muscles, nervous system sense organs. 3 hours lecture, 4 hours laboratory.

- 465-6 (3,3) Introduction to Biophysics.** Application of the analytic methods of the physical sciences to physiology. Molecular aspects of control systems governing vital processes. Prerequisite: one year of physics. 3 hours lecture. C
- 500-1 to 9 Advanced Seminar.** One meeting per week, 1 credit per quarter. Formal presentation of research and/or current literature in physiology. Required of all majors each quarter in residence. C
- 519-3 Experimental Pharmacology.** Exercises to familiarize the student with advanced physiological investigation. Prerequisite: strong background in chemistry and the biological sciences. 2 hours lecture, 2 hours laboratory. C
- 520-12 (4,4,4) Physiological Techniques.** Three terms of biophysics. (a) Analysis of protoplasmic components of tissue extracts under a variety of physiological conditions using chemical and physical procedures. (b) Gas analysis and metabolic methods in physiology. (c) Instrumentation for the recording of the physiologic activity of living tissues and organs. Use of channel recorders. Prerequisite: undergraduate concentration in any of the biological or physical sciences. 2 hours lecture, 4 hours laboratory. C
- 521-1 to 6 Readings in Current Physiological Literature.** Open only by consent. C
- 540-8 (4,4) Advanced Comparative Physiology.** Physiological processes among animals. Prerequisites: courses in chemistry and biological sciences. 3 hours lecture, 2 hours laboratory. C
- 550-3 Radiation Biology.** Theory and specific applications of isotopes in physiology emphasized, and opportunity given to learn how to handle radioactive materials in the laboratory. 2 hours lecture, 2 hours laboratory. Prerequisites: general physics and biochemistry or equivalent. C
- 565-3 Biophysics.** Application of the analytic methods of the physical sciences to physiology. Molecular aspects of control systems governing vital processes. 3 hours lecture. Prerequisite: one year of physics. C
- 599-3 to 9 Thesis.** 9 hours to be counted toward a master's degree. C
- 600-4 to 36 Doctoral Dissertation.** A maximum of 36 hours may be counted for the doctor's degree. C

## PLANT INDUSTRIES

- 401-4 Soil Physics.** Physical properties of the soil; factors affecting them, their measurements, evaluation, and their influence in determination of soil productivity. Prerequisite: 103 or 301. C
- 402-4 Soil Morphology and Classification.** Morphology and soil formation, description and identification of soil profiles, classification of soils, techniques of soil mapping, and interpretation of survey data. Field trips cost not more than \$10. Prerequisite: 103 or 301. C
- 404-3 Turf Management.** Principles and methods of establishing and maintaining turf for homes, recreational areas, and public grounds. Study of basic plant and soil materials, fertility, culture, water management, and pest control as related to turf-grasses in variable environments. Field trips cost not more than \$2. Prerequisite: GSA 201b or equivalent. C
- 406-4 Radioisotopes, Principles and Practices.** Lectures on the principles of radioisotope technology as applied to agricultural and biological sciences. Prerequisites: biochemistry, physiology or consent of department. C
- 407-5 (3,2) Fertilizers and Soil Fertility.** (a) Lecture. The uses of fertilizer materials; effects of various fertilizers on soils and crops; fertility maintenance and soil management. Prerequisite: one course in soils. (b) Laboratory. The laboratory study of the chemistry and fertility of soils. Parallels the theoretical presentation given in 407a. Prerequisite: 407a or concurrent enrollment. C
- 408-4 World Crop Production.** Ecological and physiological considerations used in the interpretation of crop research data, with emphasis on modern developments and trends in production and research of major agronomic crops. Prerequisite: 309. C
- 415-3 Plant Breeding.** The relationships among certain aspects of genetics, plant anatomy, developmental morphology and cytology and their application to breeding of horticultural, agronomic, and forest plants. Induction and utilization of mutations, including polyploidy, is emphasized. Prerequisite: any course in basic genetics. C



**418-4 Weeds and Their Control.** Losses due to weeds, their identification and distribution, methods of weed dissemination and reproduction. Mechanical, biological, and chemical control of weeds. "Bioactivity of herbicides." State and federal legislation pertaining to weed control herbicides. Herbicide commercialization. Field trips. Prerequisite: GSA 201b. C

**419-4 Forage Crop Management.** Forage production and utilization; forage crop characteristics, breeding, and ecology; grasslands as related to animal production, soil conservation, crop rotation, and land use. Prerequisite: GSA 201b. C

**424-5 (3,2) Soil Microbiology. (a) (Lecture).** (Same as Microbiology 424.) A study of the numbers, characteristics, and biochemical activities of soil microorganisms, with particular consideration of their role in the transformations of organic matter, nitrogen, and minerals as related to soil fertility and management. Prerequisite: one course in microbiology or soils. **(b) (Laboratory).** Experiments designed to determine numbers, and to study the characteristics and biochemical activities of the soil microflora as related to fertility. Prerequisites: 424a, or concurrent enrollment, Microbiology 301. C

**438-5 Vegetable Production.** Studies of the effects of physiological and morphological factors affecting the culture, harvesting and marketing of commercial vegetables. Prerequisites: Plant Industries 264, GSA 201b or equivalent. C

**440-3 Plant Propagation.** Fundamental principles of asexual and sexual propagation of horticultural plants. Actual work with seeds, cuttings, grafts, and other methods of propagation. Prerequisites: 264, GSA 201b, or consent of department. C

**455-5 Plant Pathology.** C

**456c-2 Agricultural Marketing Problems and Practices—Field Crops.** (See Agricultural Industries 456c.) C

**456e-2 Agricultural Marketing Problems and Practices—Horticultural Crops.** (See Agricultural Industries 456e.) C

**506-2 Laboratory Methods for Radioisotopes.** Laboratory exercises giving the students experience in instrumentation, measurements, and the safe handling of isotopic materials. Prerequisite: 406 or consent of department. C

**507-3 Advanced Soil Fertility.** Theoretical principles of soil fertility; evaluation of research data and methods used in soil fertility research. Prerequisite: 407a. C

**520-1 to 6 Readings.** Contemporary books and periodicals on selected subjects within the fields of plant industries. Prerequisite: consent of department. C

**575-1 to 6 Research.** Directed research on approved projects investigating selected fields of the plant industries. Prerequisite: consent of department. C

**581-1 to 6 Seminar.** Group discussions of and individual papers on subjects and problems relating to soils, field and horticultural crops, and other phases of the fields of the plant industries. Prerequisite: consent of department. C

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. Prerequisite: consent of department. C

## PSYCHOLOGY

**404-4 Theories of Perception.** An examination of the different theories concerned with an organism's sensory contact with his environment. Physiological, social, and organizational theories of perception will be considered. Prerequisite: 211b or consent of instructor (C); 312 or consent of instructor (E).

**406-4 Learning Processes.** Processes by which individual behavior is changed, using procedures developed in the learning laboratory. Introduction to major concepts and data of learning. Prerequisite: consent of instructor (C); 311 or consent of instructor (E).

**407-4 Theories of Learning.** A consideration of the major contemporary learning theories and their relation to experimental data. Prerequisite: 211b or consent of instructor (C); 406 or consent of instructor (E).

**408-4 Theories of Motivation.** An examination of instinct theories, biological drives, emotions, social motives, and psychodynamic theories as they contribute to a comprehensive psychology of motivation. Prerequisite: 211b or consent of instructor (C); 313 or consent of instructor (E).



- 409-4 History and Systems.** Study of the important antecedents of contemporary scientific psychology. Considers issues, conceptual developments, and research advances, and presents the major schools and systems. Prerequisite: signed consent of psychology adviser.
- 420-4 Scientific Methodology in Psychology.** Scientific methodology as an approach to investigation and classification of problems involved in understanding the psychological nature of man. Prerequisite: consent of instructor. E
- 421-4 Psychological Tests and Measurements.** Principles of psychological measurement, including errors of measurement, techniques for estimating reliability and validity, techniques of test construction, and problems in assessment and prediction. The laboratory will include the use of selected instruments. Lecture and laboratory. Prerequisite: 8 hours of psychology (C); 211b and consent of instructor (E).
- 424-4 Psychophysical Methods.** Survey of the major psychophysical methods and their applications. Lecture and laboratory. C
- 431-4 Psychopathology.** Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.
- 432-4 Mental Hygiene.** E
- 437-3 Fundamentals of Counseling.** E
- 440-4 Theories of Personality.** A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.
- 451-4 Advanced Child Psychology.** An examination of the concepts, methods, and problems of human development with consideration of both its psychological and psychosocial aspects. Prerequisite: 301 or 303 or consent of instructor. C
- 461-4 Advanced Social Psychology.** Examines current areas of interest in the study of social behavior: language behavior, communication, social influence, attitude change, interpersonal perception, etc. Emphasis is on the individual in the social context. Prerequisite: 307 or consent of instructor.
- 465-4 Group Dynamics and Individual Behavior.** Examination of research and theory in the area of small-group interaction. Examines such topics as group structure and function, group problem-solving, leadership, etc. Prerequisite: 307 or consent of instructor.
- 471-4 Work Methods and Measurement.** A study of the analysis and evaluation of jobs and the measurement of work performances by the use of standard time tables. Prerequisite: 320 or consent of instructor.
- 479-4 Psychology of Industrial Conflict.** Consideration of social and psychological factors underlying controversies between workers and management. Prerequisite: 320 or consent of instructor. E
- 490-1 to 16 Independent Projects.** Independent readings and projects in psychology. Prerequisite: consent of instructor and chairman.
- 495-1 to 18 Seminar: Selected Topics.** Varied content. To be offered from time to time as need exists and as faculty interest and time permit. Prerequisite: consent of chairman. C
- 501-12 (4,4,4) Proseminar in General Psychology.** Basic conceptual and methodological problems in the study of behavior. (a) History and systems of psychology, philosophy of science, scientific methodology, behavior theory. (b) Acquisition of behavior, sensory and perceptual processes, motivation and emotion. (c) Personality and individual differences, new conceptual and methodological developments and trends. To be taken in sequence. Prerequisite: consent of instructor. Open to students in other areas by arrangement with chairman.
- 509-4 Instrumentation in Behavioral Science.** Study of methods of research instrumentation. Techniques of stimulation and of physiological and psychological response recording. Lecture and laboratory. Prerequisite: consent of instructor. C
- 512-4 Sensory Processes.** A study of the structure and functions of the sense organs. Emphasis will be placed on the psychological data which describe the function of these organs. Lecture and laboratory. Prerequisite: consent of instructor. C
- 514-8 (4,4) Physiological Psychology.** Study of neural and endocrine mechanisms underlying behavioral processes. Lecture and laboratory. Prerequisite: consent of instructor (C); 314 or consent of instructor (E). C
- 520-4 Research Design and Inference I.** Study of elements of probability, design and

analysis of simple experiments including *t* and *F* tests; selected non-parametric tests, and multiple regression analysis. Prerequisite: 211b or Guidance 420.

**521-4 Research Design and Inference II.** Design and analysis of factorial experiments including analysis of variance models, analysis of covariance, and of Latin square design. Prerequisite: 520.

**522-4 Research Design and Inference III.** Advanced design and analysis of psychological experiments. Analysis of variance in complex designs, analysis of covariance, and trend analysis. Prerequisite: Mathematics 410B (C); 521 (E).

**523-2 Research Seminar. Evaluation of research.** A study of principles of research design from the point of view of the scholar reading the journals. C

**524-4 Advanced Research Methodology.** A detailed coverage of psychometric methods, with special emphasis on the theory and applications of multivariate regression analysis. Includes an introduction to factor analysis. Prerequisite: 522. C

**525-4 Mental Test Theory.** Derivation of the basic psychometric equations, effects of test length and group heterogeneity on test parameters, criteria of parallel tests, weighting and differential prediction. Prerequisite: 524. C

**530-4 Personality Theory and Dynamics.** Intensive treatment and critical analysis of several representative approaches to personality. Consideration also of important personality concepts common to most theoretical approaches. Prerequisite: consent of instructor.

**531-2 to 4 Advanced Psychopathology.** Consideration of special topics, including psychological theories of the nature and etiology of human pathology, assessment of pathology, and institutional care and treatment. Includes extensive field experience in a mental hospital setting. Prerequisite: 530, 541, 541b, and consent of instructor.

**532-2 Experimental Approaches to Personality.** Presentation of conceptual formulations and research data from representative experimental approaches to personality. Critical evaluation of methodological approaches to personality study. Prerequisite: 530 or consent of instructor. C

**533-3 Experimental Approaches to Psychopathology.** An examination of the research literature on several issues in clinical psychopathology. Prerequisite: consent of instructor. C

**536-4 Fundamentals of Counseling.** Introduction to the common assumptions, dimensions, and communicative skills underlying psychological counseling. Observation utilized to supplement didactic discussion. Lecture and demonstration. Prerequisite: consent of instructor. C

**537-4 Counseling and Psychotherapy.** Systematic presentation of major approaches to counseling and psychotherapy. Consideration of salient aspects of the therapeutic situation and of the process and nature of changes during psychotherapy. Critical evaluation of both theory and practice. Consideration of research findings and problems. Prerequisite: consent of instructor.

**538-2 Group Psychotherapy.** Presentation of major approaches to group psychotherapy. Prerequisites: 537 and consent of instructor. C

**541-4 (C); 541-6 to 8 (4, 2 to 4) (E) Psychodiagnostics I.** Introduction to clinical psychology with attention to the function and clinical use of individual intelligence tests. Theories of intelligence and related research. Age scales with emphasis on infant and child testing. Point scales and tests of deterioration with emphasis on child and adult testing. Lecture and practicum. Prerequisites: Mathematics 410 and consent of instructor (C); 520 and consent of instructor (E).

**543-6 (4,2) Psychodiagnostics II.** Basic theory and assumptions underlying projective methods. Use of projective techniques as measures of personality and as tools for clinical diagnosis and research. (a) Thematic projective techniques. (b) Rorschach and Bender-Gestalt. Lecture and practicum. Prerequisite: 541 or consent of instructor. C

**545-2 Psychodiagnostics III.** Nature and theory of questionnaires for personality assessment and psychodiagnostics. Consideration of their use in clinical research. Lecture and practicum. Prerequisite: consent of instructor. C

**546-3 to 4 Psychodiagnostics for Special Populations.** Tests used in diagnostics and measurement of special populations such as retarded, blind, deaf, brain injured, and the like. Lecture and laboratory. (Same as Special Education 573.) Prerequisite: consent of instructor. C



- 547-2 Assessment Procedures in Counseling.** Use and integration of psychological test data, vocational, socio-economic, and educational information in assessment and counseling. Prerequisite: 421 or consent of instructor. C
- 552-4 Experimental Child Psychology.** Consideration of relationship of methodology to child theory, typical methodological procedures and problems specific to children, and representative research topics. Prerequisite: 451 or consent of instructor.
- 554-2 Developmental Theory.** Systematic study and critical evaluation of representative theories of child behavior. Prerequisite: 451 or consent of instructor.
- 556-2 Psychological Treatment of the Child.** Investigation of personality and behavior problems. Etiological factors and methods of treatment. Prerequisite: 451 or consent of instructor.
- 561-4 Social Influence Processes.** Critical review of theoretical and empirical developments in the study of influence processes, attitude change, etc. Social and intra-personal determinants are examined. Prerequisite: 461 or consent of instructor.
- 562-4 Observational Techniques and Content Analysis.** Examination and evaluation of research methods and measurement techniques utilized in social psychology. Prerequisite: 461 or consent of instructor. C
- 564-4 Communication and Group Behavior.** Emphasis in this course is on language behavior and the psychological study of the communication process. Examines theories, methods and research in these areas. Prerequisite: 471 or consent of instructor.
- 571-4 Industrial Motivation and Morale.** A review of the factors which determine motivation and morale as well as their measurement and evaluation. Prerequisite: 320 or consent of instructor.
- 572-4 Industrial Training.** A systematic consideration of the methods of industrial training and development on the production, supervision, and decision-making levels. Prerequisite: 320 or consent of chairman. C
- 573-2 Selection and Placement.** (a) Selection and validation of test batteries, use of the interview and personal history data in selection, quota, and classification problems, administration of a selection program. (b) Methods of evaluating employees' proficiency and criterion development. Also, a brief introduction to scaling procedures. Must be taken in a,b sequence. Prerequisite: 524 or consent of instructor. C
- 574-2 Psychology of Industrial Relations.** Analysis of psychological factors involved in industrial organization, employer-employee relations, and union-management relations. Prerequisite: 571 or consent of instructor. C
- 576-2 to 4 Human Engineering.** Analysis of man-machine systems, human factors in the design of display and control systems, limitations and capabilities of the human operator. Prerequisite: consent of chairman. C
- 590-1 to 16 Readings in Psychology.** Readings in selected topics in psychology under staff supervision. Prerequisite: consent of chairman.
- 591-1 to 36 Research in Psychology.** Research under staff supervision in selected areas of psychology. Prerequisite: consent of the chairman.
- 593-1 to 18 Practicum in Psychology.** Practicum experience in a professional setting is offered under staff supervision in the following areas: (e) Clinical Psychology, (f) Counseling Psychology, (h) Industrial Psychology, (j) Child Psychology, (k) Community Health Psychology, (l) Teaching of Psychology. C
- 595-1 to 18 Advanced Seminar.** Seminars of varied content for advanced students. Prerequisite: consent of chairman. C
- 598-2 Ethical and Professional Problems in Psychology.** Problems in the professional practice of psychology and in teaching and research. Professional ethics, relations to other professions and the public, organization and structure of the field, current trends. Prerequisite: major in psychology or consent of instructor.
- 599-1 to 9 Thesis.** C
- 600-1 to 36 Dissertation.** C

## RECREATION AND OUTDOOR EDUCATION

- 413-4 Safe and Healthful Living Outdoors.** Areas to be included are foods, sanitation, survival, plants and animals, natural hazards, emergency care, water, riflery, and others. Prerequisites: 334, and at least 10 hours of biological sciences. C
- 425-4 Construction and Maintenance of Recreation Areas.** Principles of planning,



construction, management and maintenance of shelters, utilities, sanitation structures, erosion control, and other related problems. C

**450-4 Principles and Interpretations of Recreation.** Principles of recreation in relation to education and everyday life. Basic concepts underlying the interpretation of recreation and leisure in the light of economic, psychological, political, and social conditions. C

**470-4 Recreation in Public Education.** Emphasis on current practices and trends in curriculum content, adult education, extracurricular activities, after-school and vacation programs, and cooperative programs with other agencies. C

**490-2 to 12 Practicum in Recreation and Outdoor Education.** Supervised practicum experience in a professional setting. Emphasis on administrative, supervisory, teaching and program leadership in various laboratory situations related to recreation and/or outdoor education. C

**510-2 to 6 School Camping and Outdoor Education Workshop.** Current practices in school camps; the training of leaders for school camps and the place of outdoor education in the school program. C

**520-4 Recreation Program Workshop.** Bases for planning community programs of recreation. Scope of leisure opportunities; selection, evaluation, and adaptation of activities. C

**530-4 Organization for Community Recreation.** The development and administration of a recreation program. A study of community recreation, including developing facilities and coordinating community agencies. C

**540-4 Recreation Surveys and Planning of Facilities.** An analysis of scope, content, objectives, procedures, and types of recreational surveys and appraisals. Collection and analysis of data. C

**550-2 to 6 Field Problems in Community Recreation.** Internship in school and community recreation and outdoor education programs with emphasis on administrative problems. C

**560-2 to 6 Field Problems.** Internship in school recreation and outdoor education with emphasis on administrative problems. C

## REHABILITATION

**414-1 to 16 Developing Employment Opportunities.** Designed to train rehabilitation personnel in the attitudes, methods and skills pertinent to placement of handicapped persons in competitive and other occupations. Prerequisites: special standing and consent of instructor. C

**420-4 Human Development and Behavior.** Consideration of human development from the framework of the major theories, to include acquisition and maintenance of diverse behavior patterns. Prerequisite: advanced standing. C

**480-2 An Introduction to Rehabilitation.** A survey of the philosophy, procedures and practices underlying the rehabilitation movement, including the history and legislation that have contributed to its rapid development. C

**481-2 An Introduction to Employment and Developmental Services.** A review of the development and growth of employment services and special youth centers, current social needs and trends, and the organizational patterns in such centers. C

**485-4 Scientific Methods in the Behavioral Sciences.** Scientific methods as an approach to the investigation of human behavior including consideration of various systems of behavior theory and practice. C

**486-4 Introduction to Behavior Modification.** Overview of the field of behavior modification, its procedures, techniques, and methods. A survey of current literature examining the various populations being utilized. C

**511-2 to 4 Vocational Developments and Occupational Choice.** The psycho-social meaning of work, vocational development and theory of occupational choice, and the analysis of the labor market now and in the future. Prerequisite: consent of instructor. C

**519-2 Selection, Placement, and Follow-up.** A survey of current methods and criteria used in job development, selective placement and follow-up of handicapped and deprived individuals. Prerequisite: consent of instructor. C

**521-4 Child Behavior.** Systematic examination of the manner in which children (from conception on) acquire and maintain their behavior patterns and the role of the environment in controlling such development. Prerequisite: Guidance 501 and consent of instructor. C

**526-4 Complex Human Behavior.** The manner in which humans acquire, maintain, and attenuate the more complex forms of behavior, particularly in the social, vocational, and educational areas of behavior. Prerequisite: Guidance 501 and consent of instructor. C

**531-2 Vocational Appraisal.** Consideration of tests and procedures used in assessing the individual's functioning abilities and the meaning work has in achieving fulfillment, which also includes the requirements of the job for purposes of aligning the two. Prerequisite: 511 or consent of instructor. C

**533-4 Measurement in Behavior Change.** Dividing the types of measurement into two categories, direct and indirect, an analysis of the relative advantages or disadvantages inherent in each technique when applied to specific behavior areas. Prerequisites: Guidance 501 and consent of instructor. C

**535-4 Schedules of Reinforcement.** A study of schedules as a basis for understanding and controlling behavior, and the nature of schedule effects in relation to other behavioral variables. Prerequisite: 485 or Guidance 501 or consent of instructor. C

**537-4 Diagnostic Procedures for Special Populations.** A detailed survey of the procedures in diagnosis and assessment of the retarded, blind, deaf, brain injured, and others. May include some laboratory assignments. Prerequisites: Psychology 421 or consent of instructor. C

**541-1 to 6 Medical Aspects of Rehabilitation.** A review of human systems, disfunctions leading to major diseases entities and injuries, and the implications for rehabilitation. Prerequisite: consent of instructor. C

**543-4 Structural Basis of Behavior.** Study of the structural basis of the respondent and operant behavior systems and their relationship to environmental variable effecting both systems. Prerequisites: Guidance 501 and consent of instructor. C

**551-4 General Rehabilitation Counseling.** An overview of the basic counseling processes appropriate to rehabilitation settings. Includes consideration of the stylistic and interpersonal factors common to various persuasions. Prerequisite: consent of department. C

**555-2 Rehabilitation Counseling with the Mentally Retarded.** Review and discussion of the philosophy, issues, approaches, and research pertinent to the counseling function in the development of the retarded. Prerequisite: Guidance 537a or Psychology 536 or consent of instructor. C

**556-4 Group Procedures in Rehabilitation.** Characteristics of intensive group experiences, and procedures in preparation for group counseling. Prerequisites: Guidance 537 and consent of instructor. C

**558-4 Programmed Instruction and Behavior.** Techniques and procedure in programming material for rapid acquisition of new behavior with particular emphasis on automated instruction and programmed texts. Prerequisite: 485 or Guidance 501 or 515 or consent of instructor. C

**561-2 Psycho-Social Aspects of Disability.** An examination of the socio-emotional impact of traumatic injury or chronic illness (on human functioning) and its role in the rehabilitation process. Prerequisites: Psychology 421 and consent of instructor. C

**563-2 or 4 Aggressive Behavior.** Analysis of the definitions, measures, and controls of the aggressive response. An exploration of the variables effecting the amount and intensity of such behavior. Students may elect a project to undertake for the two additional credits. Prerequisites: Guidance 501 and consent of instructor. C

**564-4 Sexual Behavior.** The definition and measurement of sexual responses, their significance and importance for understanding complex behavior patterns. Prerequisites: Guidance 501, Section 2, and consent of instructor. C

**567-4 School-Related Behavior.** An intensive analysis of the students' and teachers' behavior, its functional relationship, and the ways in which behavior modification techniques might create a more satisfactory environment for teaching and learning. Prerequisites: Guidance 501 and consent of instructor. C



- 571-1 to 6 Seminar in Selected Topics.** Selected topics of pertinence to rehabilitation and counseling personnel. Prerequisite: consent of department. C
- 574-1 to 12 Seminar in Pastoral Counseling.** A consideration of those aspects of counseling and the helping relation that are relevant in pastoral settings, to include the special problems involved in pastoral counseling. Prerequisite: consent of instructor. C
- 576-1 to 12 Seminar in Behavior Modification.** Basic issues involved in the modification of human behavior in the applied areas—scientific, methodological, ethical and social issues will be evaluated. Prerequisite: consent of instructor. C
- 578-1 to 6 Seminar in Correctional Rehabilitation Counseling.** Review of major issues and research relative to rehabilitation practices in youth and correctional settings. Prerequisite: consent of instructor. C
- 580-1 to 6 Practicum in Rehabilitation Services.** Familiarization with the functions of various rehabilitation settings through observation and participation in those activities—usually one day per week. Prerequisite: consent of instructor.
- 583-1 to 16 Practicum in Behavior Modification.** Practicum experience in an applied setting offered under joint supervision of staff and adjunct faculty. Prerequisite: consent of instructor. C
- 585-1 to 16 Practicum in Rehabilitation Counseling.** Practice in developing counseling skills under close supervision in a variety of settings. Prerequisites: Guidance 537a and consent of instructor. C
- 589-0 to 12 Internship in Rehabilitation.** Full-time practice in a rehabilitation setting supervised by both agency personnel and university faculty. Prerequisites: 585 and consent of department. C
- 590-1 to 16 Independent Projects.** Independent development of projects and systematic readings in pertinent rehabilitation areas. Prerequisite: consent of instructor.
- 591-1 to 16 Research in Rehabilitation.** Systematic research on factors and procedures relevant to rehabilitation. Prerequisite: consent of instructor. C
- 599-1 to 9 Thesis.** Prerequisite: consent of instructor. C

## SECONDARY EDUCATION

- 402-4 Aerospace Education Workshop.** Teachers learn about current developments in this area and how to incorporate aerospace information into existing curricula. They study in some detail the social, political, and economic consequences of this era. Prerequisite: consent of instructor. C
- 407-4 The Junior High School.** The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum.
- 440-4 (C); 440-3 (E) Teaching Reading in High School.** A foundation course in how to teach reading in junior and senior high school: developmental and corrective reading programs; appraisal of reading abilities; methods and materials of instruction. Prerequisite: Guidance 305.
- 450-4 to 16 Field Training in Community Development Methods.** C
- 487-4 Teaching the Natural Sciences in Secondary Schools.** Objectives of science education; instruction methods and techniques appropriate for teaching science; desirable equipment, audio-visual aids, and instructional material; development of a course outline and at least one instruction unit. Prerequisite: 315 or consent of instructor. E
- 488-3 (C); 488-4 (E) Teaching Social Studies in Secondary Schools.** Deals with objectives, scope and sequence of curriculum, methods of teaching different courses and age groups, materials and evaluation. Prerequisite: Guidance 305.
- 490-4 Workshop in Economics Education.** (Same as Economics 490.) Designed to assist elementary and secondary school teachers in promoting economic understanding through the translation of economic principles and problems into classroom teaching materials.
- 505-4 Improvement of Reading Instruction.** (See Elementary Education 505.)
- 507-2 to 4 Readings in Reading.** Independent reading; acquaintanceship with the literature and research in reading. Conference periods. Prerequisites: 505 and consent of instructor.



**508-4 Seminar: Trends in Selected Areas in Secondary Schools.** For students in advanced graduate work. Individual class members will read basic bibliography related to secondary education and read widely about trends in the area of their own teaching fields. Prerequisites: completion of half or more of the work leading to a master's degree and consent of the instructor.

**509-4 to 8 Practicum in Reading.** For advanced students; teaching demonstrations and evaluations. Each student works with a group of reading disability cases. Prerequisites: 521a,b,c, and consent of instructor.

**510-4 to 8 Seminar: Problems in Reading.** Major field content seminar: Problems and practices; comprehensive review and evaluation of research and literature. Each student pursues a problem of his own interest. C

**514-4 Organization and Administration of Reading Programs.** For reading specialists, principals, supervisors, consultants. Recent trends in elementary and high school reading programs, providing reading instruction for total school population, materials and equipment, in-service training, role of the reading specialist. Problems of class members are studied and discussed. Prerequisites: Educational Administration 561, 505.

**516-8 to 12 Internship in Reading.** Culminating experience for doctoral candidates. Each student supervises reading services in his own or cooperating school. Conference periods. Prerequisites: 521a,b,c, and consent of instructor. C

**518-2 (C); 518-2 to 4 (E) Supervision of Student Teachers.**

**521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.** Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisites: 505 or 440 or concurrent registration with 505, and teaching experience.

**544-9 NDEA Summer Institute for Teachers of German.** (See Foreign Languages.) C

**550-4 Core Curriculum in the Secondary School.** Designed to help students gain a functional understanding of the core concept. Techniques of selecting materials and the cooperative planning of units of work. Critical study of current practices in this field. Prerequisite: Educational Administration 460.

**560-1 to 8 New Developments in Technological Education.** (See Technical and Industrial Education.) C

**562-4 Workshop in High School Curriculum (C); 562-4 The High School Curriculum (E).** Designed to permit students to work in groups on problems related to the high school curriculum. Such problems should originate in the schools where the students are or will be employed. The point of view maintained is that procedures should be very democratic. The instructor serves as a coordinator of activity; resource people are used freely. Prerequisite: one other graduate course in curriculum.

**564-4 High School Principalship.** Designed to deal with problems met specifically by the high school principal. Emphasizes his role in relation to guidance, curriculum, schedule-making, extracurricular activities, public relations, budgeting of time, etc. Prerequisite: Educational Administration 424 and consent of instructor.

**570-4 Extra-Class Activities.** Cocurricular activities of the junior and senior high school including intramural and interscholastic functions.

**575-2 to 4 Individual Research.** The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: (a) Curriculum, (b) Supervision, (c) Language Arts, (d) Science, (e) Reading, (f) Social Studies, (g) Problems in Secondary Education, (k) Junior High School Methodology.

**586-3 The Change Agent in Planned Change.** An intensive diagnosis of the dynamics involved in planned change in a social system and the consultant's relationship to this process. Prerequisite: consent of instructor. C

**589-2 Seminar in Community Development.** C

**591-4 Workshop in Current Problems in Secondary Education.** Designed primarily to help high school principals to work effectively and with the help of resource leadership on the most urgent problems confronting their schools. Discussion, reports, lectures, and final examination. Prerequisite: consent of instructor.

**596-5 to 9 Independent Investigation.** A field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study will involve selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

**597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis.** Minimum of 5 hours to be counted toward a master's degree. E

**599-3 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## SECRETARIAL AND BUSINESS EDUCATION

**403-3 Teaching Typewriting.** The programming of activities in typewriting training, methods of instruction, skill-building principles and techniques, selection and preparation of practice materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 304 or equivalent.

**404-3 Teaching Shorthand and Transcription.** The programming of activities in shorthand and transcription training, methods of instruction, skill-building principles and techniques, selection and preparation of practice and homework materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 324a or equivalent.

**405-3 Teaching General Business Subjects (C); 405-4 Teaching Basic Business Subjects (E).** Instructional methods and materials for, and the evaluation of pupil progress in, such basic business subjects as general business, consumer education, economic geography, business law.

**406-4 Teaching Office Practice and Office Machines.** Instructional methods and materials for, and the evaluation of pupil performance in, office practice and office machines.

**408-3 Teaching Bookkeeping and Accounting.** Instructional methods and materials for, and the evaluation of pupil progress in bookkeeping and accounting. Prerequisite: Accounting 251b or equivalent.

**414-6 (3,3) Organization and Administration of Cooperative Vocational Business Education.** (a) Philosophy and objectives of cooperative vocational programs, methods of selecting students and work stations, placing and supervising students on part-time jobs. (b) Preparation of instructional materials, job analysis, conducting related information classes, evaluating workers and work stations, advisory committees, public relations aspects of cooperative programs.

**415-6 Supervised Business Experience and Related Study.** Designed to prepare teachers and coordinators of in-school and cooperative vocational business education programs in accordance with the requirements of the Illinois State Plan for the Administration of Vocational Education. First week (15 hours) devoted to classroom study of the principles and problems of coordinating in-school and cooperative vocational business education programs; next five weeks (200 hours) devoted to supervised occupational experience; seventh week (15 hours) devoted to classroom analysis and evaluation of on-the-job experiences of the members of the class in relation to their future work as coordinators and vocational teachers. Each student applies for and obtains his own position with the assistance and approval of the instructor. While employed, each student looks for and analyzes relationships between his work experiences and the in-school or cooperative work experience program he will later conduct.

**426-4 Office Management.** The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities of the office; office services, procedures, standards, and controls; records management.

**427-4 Records Administration.** The requisites for records administration. The value of files, their creation, control, retention, and disposition. Applications to such records as medical, legal, educational. Prerequisite: 407.

**428-4 Systems and Procedures.** A problems approach to the office systems-procedures function in the modern business firm; seminar and laboratory work on improvement



of systems and procedures, administrative information and paperwork engineering; theory of office-systems design; systems administration and work simplification. Prerequisite: 407 or consent of instructor. E

**500-4 Principles and Problems of Business Education.** A study of the fundamentals of business education; its relation to business, to general and vocational education, and to guidance programs; its history, current status, and trends; special emphasis on objectives and curriculum problems.

**502-4 Research in Business Education.** A study of research findings and techniques as exhibited in representative investigations in business education. Emphasis on reading and interpreting research, using research findings in solving instructional problems, and uncovering potential topics for future research. Prerequisite: Guidance 422b.

**503-4 Tests and Measurements in Business Education.** The selection, construction, administration, and interpretation of tests and test scores in business education subjects. Principal emphasis on teacher-made tests, especially of the performance type, with secondary attention to published tests in the field.

**505-1 to 6 (C); 505-2 to 8 (E) Workshop in Business Education.** Major issues in business teacher education. Ordinarily offered during one or two weeks of the summer session.

**507-4 Application and Fundamentals of Data Processing in Business Education.** Acquaints business teachers with data processing applications in high school business classes. Emphasis on vocabulary development, unit record equipment, concepts of programming and fundamentals of computer applications. Approximately one-third of the course will be spent in machine operation. E

**508-4 Administration and Supervision in Business Education.** History and philosophy of administration and supervision in Business Education with consideration of problems arising at local, state, and national levels; and at secondary, college, and university levels. Supervisory problems will include curriculum construction and evaluation, classroom supervision, promotional policies, selection of textbooks, purchase and maintenance of equipment, physical arrangements, and other areas according to need of students.

**509-4 Improvement of Instruction in General (Basic) Business Subjects.** Designed for the experienced high school teacher who is interested in the study of curriculum and teaching problems in basic business subjects. The course will include teaching procedures, review of materials, formulation of tests and evaluation. The organization of teaching units and projects will be emphasized.

**510-4 Improvement of Instruction in Secretarial Subjects.** Designed for the experienced high school teacher who is interested in the study of curriculum and teaching problems in secretarial subjects. The course will include teaching procedures, review of materials, formulation of tests and evaluation. Prerequisite: 403 or 404 or 406.

**590-2 to 5 Readings in Business Education.** Supervised readings in selected subjects. Prerequisite: consent of instructor.

**591-2 to 5 Individual Research in Business Education.** Selection and investigation of a problem, use of relevant sources and techniques, collection, evaluation, and interpretation of data; and the writing of a report on the investigation. Prerequisite: consent of instructor.

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

## SOCIOLOGY

**405-4 Current Sociology.** A survey of important trends in contemporary social thought. Students read, report on, and evaluate content of leading sociological journals. Prerequisite: consent of instructor. E

**406-4 Social Change.** Processes of social change in the modern world; culture lag and conflict of norms; individual and social problems arising from conflicting systems of social values and cultural norms. Prerequisite: GSB 201b or 301.

**412-4 Sociological Research.** Application of the scientific method to sociological problems. The role of theory. Principles of good research design, measurement, sampling and analysis. Prerequisite: graduate status or consent of instructor.



- 415-3 Logic of the Social Sciences.** (See Philosophy 415.) C
- 424-4 Collective Behavior.** The behavior of people in large groups; collective inter-stimulation and emotions; crowds, audiences, and publics; mass stimuli and mass response. Prerequisite: 321 or 322, or consent of instructor.
- 426-4 Social Factors in Behavior and Personality.** How group situations and values affect behavior and shape personality; development of concepts, role-concepts, attitudes, values; theories of motivation; self-concepts; conflicting social values in relation to individual motivation. Prerequisite: 321 or Psychology 305, or consent of instructor.
- 427-4 Personality and Social Adjustment.** Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and non-adjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite: 321 or Psychology 305 or consent of instructor.
- 435-4 Social Stratification.** A comparative study of social class systems, with emphasis on the American systems. Relationships of class position to behavior in family, religion, politics, etc. Prerequisite: GSB 201b or 301.
- 438-4 Sociology of Occupations and Professions (C); 438-4 Sociology of Occupations (E).** Natural history and institutional aspects of occupations in our society, cultural context of occupations in both primitive and modern society, preparation for jobs, human values in work, promotion and discharge, mobility, retirement. Prerequisite: GSB 201b or 301.
- 449-4 Sociology of Aging.** The social implications of an aging population; social adjustments to the aging process; personal adjustments to the roles and statuses of later maturity; a consideration of retirement and public assistance programs for older people. Prerequisite: GSB 201b or consent of instructor. C
- 450-4 Social Thought I: Before 1800.** The ideological basis of Western society. The classical foundations. Trends of thought from the Renaissance to the Enlightenment. Prerequisite: consent of instructor.
- 451-4 Social Thought II: The Sociological Movement.** From Romanticism to Realism; rise and development of scientific social thought. Prerequisite: consent of instructor.
- 453-4 Social Movements.** A sociological study of modern social movements; social and cultural backgrounds, forms of expression and organization; social structure of social movements, their role and function in modern society. Prerequisite: GSB 201b or 301.
- 470c-4 Urban Planning.** (See Government 470.) E
- 471-4 Principles of Demography.** Techniques in analyzing and evaluating data on human population; composition, birth and death rates, life tables, migration data, estimates of future trend. Practical uses of demographic techniques. Prerequisite: consent of instructor. C
- 472-4 The American Correctional System.** A survey of the correctional field covering probation, institutional treatment, and parole: their historic development, organizational structure, program content, and current problems. Prerequisite: 372 or consent of instructor.
- 481-4 Processes in Social Work.** Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, administration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: 375 or consent of instructor.
- 482-3 (C); 482-4 (E) Social Work in Selected Agencies.** Study of representative literature on casework in family, psychiatric, medical, school, military, child welfare, and correctional settings, and others. Case material study and discussion with field observation and practice. Prerequisite: 481.
- 483-4 Current Problems in Corrections.** An exploration of contemporary problems in the control and treatment of sentenced offenders and a review of research trends in corrections. Prerequisites: 472 and consent of instructor.
- 484-4 Survey Course in Marriage Counseling.** Survey and analysis of the field of marriage counseling; assessment of current practices and techniques in terms of contemporary sociological theory. Prerequisites: GSB 341, and consent of instructor.
- 485-6 Community Programs for the Prevention of Juvenile Delinquency.** Analysis of delinquency prevention in community programs administered by the public schools,

social welfare, governmental agencies. A study of the categories of juvenile delinquency is applied to a critique of existing programs and to the development of experimental programs. The roles of professional workers pertinent to such programs are delineated with special reference to the public school administration, counselor, the social workers, the court, probation officers, and police. Prerequisite: consent of instructor. E

**486-1 to 5 Independent Study in Community Development.** Individual study and projects designed to fit the needs of each student. Prerequisite: consent of instructor. C

**487-7 (4,3) Community Development.** (a) The concepts of community development and analysis of the social-psychological forces and processes involved in citizen study, planning and action directed toward the fuller development of communities in a democratic society. (b) Principles and technologies applicable to solving social problems in the context of community development. Laboratory period for field experience. Must be taken in a,b sequence. Prerequisite: 4 hours of sociology and consent of instructor. C

**489b-4 Probation, Classification, and Parole.** An introduction to the structure and function of those elements of the correctional process primarily concerned with the evaluation, treatment, and control of offenders with particular attention to the case-work components of the process. Prerequisite: 481 or consent of instructor.

**489b-2 to 4 Independent Study in Corrections.** Supervised readings or independent investigative projects in the various correctional aspects of crime control, institutional management, and specific correctional programs. Prerequisite: consent of instructor.

**501-4 Survey of Sociological Theory.** The development of sociology as a science of society, from synthetic philosophy to analytic sociology. Prerequisite: 451 or consent of instructor.

**502-4 Seminar in European Sociological Theory: 1800-1910.** The theoretical systems of selected European sociologists studied from the original writings. Prerequisite: 15 hours of sociology or consent of instructor. C

**503-4 Seminar in European Sociological Theory: 1910 to the Present.** A Continuation of 502. Prerequisite: 15 hours of sociology or consent of instructor. C

**504-4 Seminar in American Sociology.** A survey of development of American sociology from its beginnings in the late 19th century to the present. Prerequisite: 501 or consent of instructor.

**506-4 Seminar in Contemporary Sociological Theory.** An analysis of recent sociological theories, including a survey of current approaches to the construction and application of systematic theoretical models. Special attention will be given to "structural-functional" analysis and to the theoretical adequacy of selected theory-oriented empirical research areas. Prerequisite: 15 hours of sociology or consent of instructor.

**513-2 Supervised Research.** Under guidance of instructor, students conduct a sociological research project. Prerequisites: 412 and 526. C

**519-4 Methodological Foundations of the Social Sciences.** Social science methodology; the nature of social facts and phenomena, the formation of concepts, the application of logic in the social sciences. Prerequisites: 407, and Philosophy 420 or consent of instructor.

**521-4 Seminar in Social Psychology.** Survey of theoretical systems; progress toward integrated body of behavioral theory. Prerequisite: 426.

**526-4 Quantitative Methods in Sociology I.** Elementary logic and argumentation; sets, relations and functions; graph theory; problems in concept formation and measurement in sociology. Prerequisite: college algebra. C

**527-4 Quantitative Methods in Sociology II.** Elements of finite probability theory; Bayesian analysis; mean, variance, and distribution of random variables; covariance and correlation; the binomial distribution; introduction to simple stochastic processes as models of social processes. Prerequisite: 526 or consent of instructor. C

**528-4 Quantitative Methods in Sociology III.** The logic of choosing and interpreting a statistic; association; inference and estimation; sample size; multi-variate association and correlation; Fortran II and the uses of the computer in sociological research. Emphasis will be given to problems of association. Prerequisite: 527 or equivalent. C

**529-4 Sociological Measurement.** Organizing empirical data; choosing and interpret-



ing a statistic; bi-variate association and correlation; inference and estimation. Prerequisite: consent of instructor or college algebra. C

**530-4 Research Design.** Types of research design. Formulation of a research problem. Ecological research methods. Case studies, types of experimental designs. Management of research projects. Types of sampling. Prerequisite: 527 or equivalent. C

**531-4 Research Analysis.** Content analysis. Classification, editing, coding, tabulation, and graphing. Analysis of descriptive research. Analysis of explanatory research. Errors and bias in research. Presentation of research findings. Prerequisite: 530 or consent of instructor. C

**533-4 Ecology of Human Communities.** Spatial and temporal organization of population and institutions with special reference to the organization of rural and metropolitan communities. Emphasis on basic research methods and current sources of data in respect to type, structure, and growth of the communities. Prerequisite: 15 hours of sociology or consent of instructor. C

**534-4 Seminar in Intergroup Relations.** Cross-cultural study of inter-ethnic and inter-faith relations, with special attention to conflict, accommodation, acculturation and assimilation. Prerequisite: 15 hours of sociology or consent of instructor.

**535-4 Race and Education in American Society.** An examination of the role of racial differences and racial relationships in the development of education philosophies and systems in the U.S. Both historical and sociological approaches are employed in assessment of social change and evaluation of educational institutions. Special attention given to changes during last half-century; contemporary race relations issues in public education are critically examined. C

**537-4 Sociology of Law.** An analysis of the role of law in society. Special emphasis will be given to the relationships between law and social organization, social control, social value systems, and social change; consideration will be given to research in the field. Prerequisite: 15 hours of sociology or consent of instructor. C

**538-4 Seminar in Industrial Sociology.** Selected aspects of industrial organization and related problems including such topics as: functional and dysfunctional deviations from ideal bureaucracy, promotion policies, labor relations, job aptitudes, job satisfactions, and public relations. Prerequisites: 15 hours of sociology and consent of instructor.

**539-4 Sociology of Bureaucracy.** Analysis of the structural characteristics and conditions for the emergence of bureaucratic and quasi-bureaucratic forms of organization. Attention to such problems as the bases of authority, stabilizing mechanisms, systems of formal and informal relations, rationality and paradox in bureaucratic organization; impact of bureaucratic organization upon character structure and its role in the formation of classes and elites. Prerequisites: 15 hours of sociology and consent of instructor. C

**542-4 Seminar on the Family.** The family as a field of sociological study. Assessment of significant historical and contemporary writing. Prerequisite: 15 hours of sociology including 340, or consent of instructor.

**543-4 Seminar in Family Variability.** An analysis of the structure, organization and function of the family in several contemporary and primitive societies. Prerequisite: 15 hours of sociology including 340, or consent of instructor. C

**544-4 Seminar in Family Research.** A detailed analysis of significant research in the field of the family. Special attention to methods employed as they relate to the specific problems investigated. Prerequisite: 15 hours of sociology including 340, or consent of instructor. C

**545-4 The Family and Social Change.** The significant social factors responsible for changes in the family. Analysis of representative writings from several periods. Prerequisite: 15 hours of sociology including 340 or consent of instructor. C

**561-4 Alcohol and Society.** Analysis of the determinants of ranges of variation in drinking patterns, normal or pathological, viewed cross-culturally and in the context of complex society. Special consideration will be given to the following: the ecology of drinking and alcoholism, drinking patterns and social structure, drinking centered subcultures and institutions, as well as to the genesis and patterning of deviant drinking (alcoholism), responsive movements and systems of control. Prerequisite: consent of instructor. C



- 562-4 Deviance and Disorganization.** Comparative study of the role of social, cultural, and psychological factors in the genesis of specific social pathologies exhibiting marked variation in group rates. Pathologies such as suicide, homicide, and alcoholism will be taken as illustrative. The strategic significance of the study of such phenomena for theories of social and personal disorganization will be considered in detail. Prerequisite: consent of instructor. C
- 563-4 Research Problems in Deviance and Disorganization.** For students who are concerned to develop viable research projects in the areas of social disorganization and deviant behavior. Students formulate and present original research prospectuses for critical evaluation. Consideration given to questions of theoretical relevance, research design, and appropriate techniques. Prerequisite: consent of instructor. C
- 564-4 Social Factors in Mental Disorders.** An examination of the role of social organization and structure in the emergence of mental disorders. Consideration given to pertinent theoretical and research contributions. Prerequisite: consent of instructor. C
- 566-4 Community Organization and Disorganization.** Nature of the community and community generating processes. Appraisal of consensus and allocation of power. Illustrative community case studies. Prerequisite: consent of instructor. C
- 572-4 Seminar in Criminology.** Critical study of important research and theoretical analyses. Prerequisite: consent of instructor. C
- 582-4 Criminal Law and the Correctional Process.** A review of the basic principles and administration of the criminal law and the legal foundations of the juvenile court, the sentencing process, parole and probation, and the changing concept of mental competency. Prerequisite: consent of instructor. C
- 583-4 to 12 Supervised Field Work in Corrections.** Experience in state and federal institutions, probation and parole departments, juvenile courts, delinquency control programs, and public or voluntary agencies. Students registering will be required to attend orientation sessions prior to actual placement; enrollment should be discussed considerably in advance of experience to facilitate arrangements with agencies. Prerequisite: consent of instructor. C
- 584-4 Seminar in Correctional Program Management.** A critical analysis of management influence on treatment programs in various correctional settings. Field trips, observation, and research in addition to readings. Prerequisite: consent of instructor. C
- 586-3 The Change Agent in Planned Change.** (Same as Secondary Education 586.) An intensive diagnosis of the dynamics involved in planned change in a social system and the consultant's relationship to this process. Prerequisite: consent of instructor. C
- 587-2 to 8 Individual Research in Community Development.** Research designed to meet the professional objectives of the individual student. Prerequisite: major in community development. C
- 591-2 to 6 Individual Research.** Supervised research projects. Open only to graduate students with a major in sociology. Prerequisite: consent of instructor and chairman of department. Credit according to achievement.
- 596-2 to 12 Readings in Sociology.** Supervised readings in selected subjects. Prerequisite: consent of instructor and chairman of department.
- 599-2 to 9 Thesis.** Prerequisite: consent of chairman.
- 600-1 to 48 Dissertation.** Prerequisite: consent of chairman. C

## SPECIAL EDUCATION

- 406-4 Techniques and Interpretation of Hearing Tests.** (See Speech Pathology and Audiology 406.) C
- 410a-4 Problems and Characteristics of the Emotionally Disturbed Child.** Diagnosis, screening, classroom management, placement considerations, goals and the effective use of ancillary services. Emphasis on the understanding of maladaptive behavior through principles of learning and behavior dynamics. Prerequisite: Psychology 301 or 303, or consent of instructor.
- 410b-4 Problems and Characteristics of the Mentally Retarded Child.** Educationally

significant characteristics including cognitive, emotional, and sociological considerations. Problems of definition, screening, diagnosis, classification systems, and classroom management are considered. Prerequisite: Guidance 305 or 414.

**410c-4 Problems and Characteristics of the Gifted Child.** Designed to help teachers in the identification of and programming for gifted and talented children. Prerequisite: Psychology 301 or 303 or consent of instructor.

**410d-4 Problems and Characteristics of the Acoustically Handicapped Child.** Consideration of psycho-social and educational aspects of deafness. History and attitudes of society. The impact of auditory impairment on language development, education and adjustment. Prerequisite: Psychology 301 or 303, or consent of instructor.

**411-4 Assessment and Remediation of Learning Disabilities** (Same as Guidance 411.) Theories of special tests and remedial programs designed for children with specific learning disabilities of a perceptual or coordination nature and who may demonstrate related adjustment problems. Prerequisite: 414 and consent of instructor. C

**413a-4 Directed Observation of Emotionally Disturbed Children.** Student observation and participation in group and individual work with emotionally disturbed children. Often taken concurrently with 410a. Prerequisite: consent of instructor.

**413b-4 Directed Observation of Mentally Retarded Children.** Student observation and participation in group and individual work with mentally retarded children. Often taken concurrently with 410b. Prerequisite: consent of instructor.

**413c-4 Directed Observation of the Gifted.** Student observation and participation in group and individual work with gifted children. Often taken concurrently with 410c. Prerequisite: consent of instructor. E

**413d-4 Directed Observation and Practice with Hard-of-Hearing Children.** Student observation and participation in group and individual work with hard-of-hearing children. Often taken concurrently with 515. Prerequisite: consent of instructor. C

**414-4 The Exceptional Child.** Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisite: Psychology 301 or 303 or consent of instructor.

**415-4 Education of Acoustically Handicapped Children.** Comparison of language development in hearing and acoustically handicapped children. Survey of established systems of teaching language to the deaf. Principles and techniques in developing concepts, vocabulary, and basic English structures; receptive and expressive oral and written language. Prerequisite: consent of instructor. C

**416-4 Introduction to Audiology.** (Same as Speech Pathology and Audiology 416.) C

**417-4 The Atypical Child and Social Agencies.** A survey of social agencies contributing to the welfare and care of exceptional children. Emphasis given to services rendered and to methods of contact and cost. Visits made to agencies and institutions; specialists invited to appear before the class. Prerequisites: Guidance 305 or Psychology 301 or 303, and Sociology 101. E

**419-4 Communication Problems of the Deaf and Hard of Hearing.** (Same as Speech Pathology and Audiology 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: Pathology and Audiology 406 or consent of instructor. C

**420a-4 Methods and Materials for Teaching Emotionally Disturbed Children.** At Edwardsville, offered in conjunction with practice teaching. Dealing with methods and materials needed in teaching emotionally disturbed children in special education programs. Prerequisite: 410a and consent of instructor.

**420b-4 Methods and Materials for Teaching Mentally Retarded Children.** Usually offered in conjunction with practice teaching, dealing with methods and materials needed in teaching educable mentally retarded in special education programs. Prerequisite: 410b and consent of instructor.

**420c-4 Methods and Materials in the Education of the Gifted.** Offered in conjunction with practice teaching, dealing with methods and materials needed in teaching gifted children. Prerequisite: 410c. E

**420d-4 Methods and Materials for Teaching Acoustically Handicapped Children.**



Methods, materials and techniques of teaching reading and elementary subjects to acoustically handicapped children in special education programs. Prerequisites: 410d and consent of instructor. C

**421-6 (3,3) Speech for Acoustically Handicapped Children.** A survey of methods in teaching oral language skill to acoustically handicapped children. Emphasis on use of visual, tactile, and kinesthetic sensory avenues in developing intelligible articulation. Voice and sentence rhythm, consideration of auditory training techniques in relation to speech development. Prerequisite: Speech Pathology and Audiology 200. C

**428-4 Speech Correction for the Classroom Teacher.** (Same as Speech Pathology and Audiology 428.)

**481a-4 Seminar: Emotionally Disturbed.** Focuses on classroom management, dynamics of behavior and behavior modification through a systematic learning theory approach. Prerequisite: 410a and consent of instructor. E

**481b-4 Seminar: Educable Mentally Handicapped.** Emphasizes special problems of the retarded, issues in curriculum planning and implementation and techniques for establishing effective school-home and school-community relations as they apply to retarded children. Prerequisites: 410b and consent of instructor. E

**481c-4 Seminar: Gifted.** Considers issues such as special courses, regular class placement of the gifted, curriculum provisions, identification and guidance of the gifted. Prerequisites: 410c and consent of instructor. E

**496-2 to 8 Readings and Independent Study in Special Education.** Study of a highly specific problem area in the education of exceptional children. Open only to selected seniors and graduate students. Prerequisites: 414 and consent of staff. C

**501-4 Special Research Problem.** For majors and minors in the field of special education. Choosing and conducting research activities. The student to select a topic for research and present it, upon completion, to the staff. Prerequisite: consent of staff.

**513-4 Organization, Administration, and Supervision of Special Classes.** Emphasis upon the functions, underlying principles, and cautions to be observed in the organization and administration of special classes. The selection and training of teachers, problems of supervision, special equipment, transportation, cooperating agencies, and legal aspects of the problem. Prerequisite: 414.

**515-4 Itinerant Teaching of Exceptional Children.** Consultation and interviewing techniques for use with individual exceptional children, their parents, teachers and other school or agency personnel. Methods of individual and small group instruction. Emphasis on itinerant service for emotionally disturbed and hard-of-hearing children through separate concurrently scheduled lectures and demonstrations. Prerequisite: 410a,b, or d. C

**517-4 The Atypical Child and Social Agencies.** A survey of social agencies contributing to the welfare and care of exceptional children. Emphasis given to services rendered and to methods of contact and cost. Visits made to agencies and institutions. Specialists invited to appear before the class. Prerequisite: 414 or consent of instructor.

**518-4 Workshop in Special Education.** Designed to promote better understanding of the psychological and educational problems of atypical children. Specialists used as consultants. Open to graduate students majoring in education, guidance, or special education. Prerequisite: 414.

**577-4 to 12 Practicum in Special Education.** Supervised experience in school or institution programs for atypical children. Special research project. Open to graduate students only. Prerequisites: 410a,b,c, or d and consent of staff.

**580a-4 Seminar: Education of Maladjusted Children.** Analysis of research, trends, and programs in the education of children who are emotionally disturbed, socially maladjusted, and/or have specific learning disabilities. Open to graduate students in special education only. Prerequisites: 414 and consent of instructor. C

**580b-4 Seminar: Education of Mentally Retarded Children.** Analysis of research, trends, and programs in the education of children who are mentally retarded. Open to graduate students in special education only. Prerequisites: 414 and consent of instructor. C

**580d-4 Seminar: Education of Acoustically Handicapped Children.** Analysis of re-



search, trends and programs in the education of children who are deaf or hard-of-hearing. Open to graduate students in special education only. Prerequisites: 414 and consent of instructor. C

**590-12 (4,4,4) Seminar: Education of Children with Mental Deviations (C); Mental Retardation (E).** Critical review of administrative practices, research, theories and etiological factors relevant to programs in the education of children who are mentally retarded or gifted. Implications of research in related disciplines. Application of theories to practice. Open to advanced graduate students in special education only. Prerequisite: consent of instructor.

**591-4 Seminar: Education of Physically Handicapped Children.** Critical review of administrative practices, research theories and etiological factors relevant to programs in the education of children who are acoustically, visually, or orthopedically handicapped or those who, for medical reasons, must receive homebound instruction. Open to advanced graduate students in special education only. Prerequisite: consent of instructor. C

**592-4 Seminar: Education of Children with Learning and Behavioral Disorders.** Critical review of administration practices, research theories, and etiological factors relevant to programs in the education of children who are emotionally disturbed, socially maladjusted, and/or have specific learning disabilities. Implications of research in related disciplines. Application of theories to practice. Open to advanced graduate students in special education only. Prerequisite: consent of instructor. C

**596-5 to 9 Independent Investigation.** A field study required of each student working for the sixth-year specialists certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study will involve selecting of the problem, surveying of pertinent literature, recording of results, and appropriate interpretations and summaries. C

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

**600 Dissertation.** C

## S P E E C H

**General Speech:** 408-4, 429-4, 440-4, 449-4, 450-12 (4,4,4), 520-3, 530-1 to 4, 532-4, 599-2 to 9, 600-3 to 48.

**Oral Interpretation of Poetry:** 423-4, 424-4, 434-4, 523-3, 530-1 to 4, 599-2 to 9.

**Rhetoric and Public Address:** 407-8 (4,4), 417-4, 418-4, 425-3, 500-4, 504-3, 505-4, 508-4, 510-4, 524-3, 530-1 to 4, 599-2 to 9.

**Speech Education:** 406-4, 427-4, 511-3, 525-4, 530-1 to 4, 599-2 to 9.

**406-4 Teaching Speech in Secondary Schools.** Philosophy of speech education, and effective teaching of speech through curricular and extra-curricular work. Prerequisite: 16 hours of speech.

**407-8 (4,4) History of American Public Address.** Critical studies of American speakers; selected speakers and speeches which reflect the dominant social and political ideas in America history. A lecture, reading, and discussion course. Parts may be taken independently.

**408-4 Psychology of Speech.** Nature and development of speech, its basic psychology, and the part speech plays in personality development.

**417-4 Contemporary Public Address.** A critical study of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs since 1918. A lecture, reading, and discussion course. C

**418-4 British Public Address.** Critical study of British speakers to c. 1920. Selection of material will be governed both by men and the issues that moved men throughout British history. C

**422-4 Oral Interpretation of Prose.** The study of reading of prose literature emphasizing the specific problems posed for the oral reader by this form. Prerequisite: 323, GSD 200, or consent of instructor. C

**423-4 Oral Interpretation of Poetry.** The reading of poetry and the interpretation of the thought and emotional content of the poetry to the audience. Prerequisites: 103, 223. C

- 424-4 Oral Interpretation of Dramatic Literature.** Readings, selecting, cutting, and presenting various types of dramatic literature. Each student gives a final recital program of readings. Prerequisites: 103, 223. C
- 425-3 Techniques of Discussion Leadership.** Studies in the field of group discussion designed to clarify the functions and concepts of the leader in democratic society. C
- 427-4 Secondary School Forensic Program.** Coaching and organizational methods for extracurricular and curricular forensic programs in school and college. C
- 429-4 Experimental Studies in Oral Communication.** A survey, analysis, and criticism of experimental approaches to the study of oral communication, with practice in planning and conducting experimental studies. C
- 434-4 Lecture and Lecture-Recital.** Study of professional work on the public platform which is climaxed by a lecture or recital of a professional nature. Prerequisite: 12 hours of public speaking, interpretation, or theater. C
- 440-4 Advanced Phonetics.** Phonetic theory. Materials and methods of linguistic geography. Prerequisite: 200. C
- 441-4 Teaching Speech in Elementary Schools.** Study of oral language development in children, analysis of their speech needs, and methods of teaching speech in elementary schools with emphasis on speech improvement and development of basic speech skills. C
- 449-4 General Semantics.** Means of changing implications so that language, in spoken or written form, describes the life facts.
- 450-12 (4,4,4) Laboratory in Interpersonal Communication.** Communication viewed as a process of relating and evaluating. Applications of and related philosophy, methodology and research to the functioning of the class itself through various speech activities. The course encompasses the common core of communication behaviors relevant to the chief communication specialties. C
- 500-4 Survey of Classical Rhetoric.** Ancient rhetoricians and orators from Corax to Augustine, with special emphasis upon the works of Aristotle and Cicero. Lectures and special studies. C
- 504-4 Medieval and Renaissance Rhetoric.** An examination of the trends in rhetorical theory between A.D. 100 and 1600 designed to facilitate understanding of the transition from classical to modern theory. C
- 505-4 Modern Rhetorical Theory.** An analysis of selected theories of public address from the seventeenth century to the present, with a view of discovering the methods and objectives of modern rhetoricians and relating them to society and its problems during the period. C
- 507-6 (3,3) Studies in Public Address.** The study of orators, oratory, issues and movements in terms of implications for rhetorical theory and current concepts of communication. Prerequisite: 407a,b. C
- 508-4 Seminar: Studies in Discussion.** Studies in group thinking and group action with a view to improving discussion and conference techniques. C
- 510-4 Seminar: Persuasion and Social Control.** Studies covering the uses and applications of persuasion in the various fields of social activity. The mass media will be examined as they apply to such areas as politics, business, religion, and education. C
- 511-4 (2,2) Teaching the College Speech Course.** Problems, methods, and materials in the teaching of speech in college with primary emphasis on the basic course. Examination of textbooks, courses of study, curriculum making, measurement, and relationship to other fields. C
- 520-3 Philosophical Foundations of Speech.** A special course reviewing the philosophy of speech for graduate and advanced students. Designed to take advantage of the knowledge and background of distinguished visiting professors. C
- 523-3 Seminar: Problems in Interpretation.** An investigation of the more advanced problems in oral interpretation, such as creation of atmosphere, use of restraint, impersonation, and impressionism. Prerequisites: 18 hours in interpretation and theater and consent of instructor. C
- 524-6 (3,3) Problems in Rhetoric and Public Address.** Problems in rhetorical theory and in the criticism of public address will be examined. The focus of study will be on both classical and contemporary theory and practice. C
- 525-4 Seminar: Speech Education.** Problems of philosophy and methods of teach-



ing speech in the elementary and secondary schools. Prerequisite: 306 or consent of instructor. C

**527-1 to 4 Research Problems.** Individual work upon selected problems for research. C

**532-4 (2,2) Areas and Techniques of Research in Speech.** Study and analysis of outstanding works in the various areas of research. Lectures on research techniques and study possibilities in the field. C

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree. C

## SPEECH PATHOLOGY AND AUDIOLOGY

**400-1 to 4 Independent Study in Speech Correction and Audiology.** Activities involved shall be investigative, creative, or clinical in character. Must be arranged in advance with instructor. May be repeated up to 6 hours of credit. C

**405-12 (4,4,4) Practicum in Speech and Hearing Therapy.** Clinical and school procedures in speech correction and audiology. One hour of class per week, and 2 hours of clinical activity or work on clinically related projects for each hour of credit. 405a (fall) emphasizes therapeutic procedures. 405b (winter) emphasizes diagnostic techniques. 405c (spring, summer) emphasizes the utilization of forms and the preparation of reports. Students may have up to 12 hours total credit in this course. Need not be taken in sequence, but a,b, or c cannot be repeated. Prerequisite: junior standing in department.

**406-4 Techniques and Interpretation of Hearing Tests.** Principles and techniques of testing the hearing and interpreting those tests in terms of the individual's needs. Prerequisite: 416 or consent of instructor.

**409-4 Research Techniques in Speech Science.** A presentation of the research techniques used in speech science with particular emphasis on equipment, experimental design, and study of significant research contributions to the field. Open to advanced students in speech or those with consent of the instructor. C

**412-4 Cerebral Palsy.** An investigation of the etiology, problems, and therapy of cerebral palsy. Prerequisites: 212, 414 or consent of instructor.

**414-4 Anatomy and Physiology of Speech and Hearing Mechanisms.** (See Physiology 414.)

**415-4 Aphasia.** An investigation of the etiology, problems, and therapy of aphasia. Prerequisite: 412, 414 or consent of instructor.

**416-4 Introduction to Audiology.** Provides the student with a basic orientation to the professional field of audiology, its history and its goals. Basic acoustics, the phylogeny, anatomy and physiology of the human ear, and significant pathologies of the ear are presented. Prerequisite: junior standing or consent of instructor. C

**419-4 Communication Problems of the Deaf and Hard of Hearing.** (Same as Special Education 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.

**420-4 Advanced Clinical Audiometry.** Principles and procedures for advanced audiometric testing, advanced problems in bone conduction measurements, in evaluation of loudness recruitment, in topodiagnostic audiometry, and nonorganic hearing loss are presented. Practical techniques include speech audiometry, Bekesy audiometry, conditioned pure tone electrodermal audiometry, and use of the Zwislocki Acoustic Bridge. Prerequisites: 416 and 406 or consent of instructor. C

**428-4 Speech Correction for the Classroom Teacher.** (Same as Special Education 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.

**515-1 to 4 Readings in Speech Pathology.** Supervised and directed readings in specific areas of speech pathology. C

**516-4 Seminar in Psychoacoustics.** Advanced study of the behavioral response of the human hearing mechanism to the various parameters of the acoustic stimulus; threshold sensitivity, loudness, pitch, localization, modulation, beats and masking. Prerequisites: 406, 416, 520. C

**520-4 Seminar in Physiological Acoustics.** Advanced study of the physiological re-



- sponses of the middle and inner ear to the acoustic stimulus. Theories of middle ear function and of cochlear function are presented in detail. Prerequisites: 416, 406. C
- 521-1 to 4 Seminar in Articulation and Delayed Speech.** Special problems of language development and articulation. C
- 522-4 to 16 (1 to 4 each) Seminar in Organic Speech Problems.** (a) Developmental anatomy and physiology. (b) Teratology, surgery, and dentistry. (c) Neuropathological bases. (d) Clinical management. Must be taken in a,b,c,d sequence or by consent of instructor. Prerequisite: graduate standing in department. C
- 528-4 Seminar in Experimental Audiology.** Basic psychophysical methods, basic operating principles of electronic equipment, and the use of laboratory sound-production and measurement equipment will be presented. Students will design and perform model psycho-acoustic experimentation. Prerequisites: 520 and 516, or consent of instructor. C
- 529-3 to 12 (1 to 4 each) Seminar in Stuttering Behavior.** (a) Emphasizes theoretical analysis, (b) emphasis on diagnostic techniques, (c) application of principles to therapy. Must be taken in a,b,c sequence or by consent of the instructor. C
- 530-1 to 4 Research Problems in Speech Correction.** Individual work upon selected problems for research. C
- 531-1 to 4 Seminar in Experimental Phonetics.** An investigation into the experimental approaches for the study of the phenomena of speech. C
- 533-1 to 4 Seminar in Speech Science.** Special problems in voice science and acoustic perception. C
- 534-1 to 4 Seminar in Instrumentation.** Familiarity with instruments, their uses, capabilities, and limitations, as they apply to the study of speech and hearing. C
- 536-1 to 4 Seminar in Administration of Speech and Hearing Programs.** A study of program settings, organizational procedures, and professional interrelationships in adult speech and hearing therapy. Field trips to rehabilitation centers and related agencies. C
- 599-2 to 9 Thesis.** C
- 600-1 to 48 Dissertation.** C

## TECHNICAL AND INDUSTRIAL EDUCATION

- 408-3 Teaching Aids in Technological Education.** Selection, development, analysis, cataloging, and use of commercial and self-made instructional aids and devices. C
- 419-8 to 16 Advanced Student Teaching in Technical Programs.** Experience in working with special and post-high school technical training programs in approved centers. The student teacher will follow the program of the supervisors of the primary specialization in both regular and extra-class activities. Prerequisite: 9 quarter hours professional Industrial Education. Graduate students only. C
- 425-2 to 8 Practicum in Technology.** Experiences in the industrial applications of technological knowledge. Cooperative arrangements with selected corporations and professional organizations provide opportunity to study technical problems in the industrial environment under the direction of specialists. Prerequisite: 12 hours in technical subjects. C
- 430-2 to 8 Special Problems in Industry and Technology.** Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of instructor. C
- 435-6 to 18 Manual Arts Internship.** Supervised hospital experience featuring various applications of manual arts therapeutical treatments. Prerequisite: consent of coordinator. C
- 450-1 to 12 (1 to 4 per quarter) Advanced Skills in Technical Subjects.** Modern industrial practices and techniques in various selected technical fields. For experienced persons seeking an opportunity to develop advanced techniques and to increase understanding in specialized industrial fields. Emphasis on modern industrial processes, methods, materials, and techniques used in school shops, drafting rooms, and industrial organizations. Prerequisite: basic training in area selected for study. Limited to certified teachers. C
- 465-8 (4,4) Industrial Safety.** (See Engineering Technology 465.) C

- 480-3 Problems of Junior High School Industrial Arts.** Ways and means of correlating industrial arts with other curriculum areas, selecting content, and solving problems pertinent to industrial arts at the junior high school level. Prerequisite: 12 hours in technical subjects. C
- 485-3 Principles and Philosophy of Industrial, Vocational, and Technical Education.** An understanding of the nature and purpose of practical arts, vocational and technical education, their relationships and differences, and the place of each in preparing people for the world of work. Required for vocational coordinators and supervisors. C
- 487-3 Layout and Planning of Technical Facilities.** Principles and practices underlying the planning and designing of shops and laboratories in vocational, industrial, and technical education. Prerequisite: 12 hours in technical subjects. C
- 491-6 (3,3) Principles of Industrial Teaching.** (a) Problems and special methods in teaching industrial arts. (b) Emphasis on methods of teaching trade subjects. May be taken in either sequence. Required for vocational teachers, coordinators and supervisors. Prerequisite: one-half of concentration must be completed. C
- 494-3 Organization and Administration of Industrial Education.** Principles and policies governing the administration of industrial education programs in elementary, junior, and senior high schools; relation of federal and state supervision of industrial education to local administration. Required for vocational teachers and supervisors. Prerequisite: 12 hours in technical subjects. C
- 495-3 Occupational Analysis.** Involves the fundamental steps for analyzing trades and other occupations with some thought toward establishing appropriate units of instruction for the apprentice or student. Jobs, operations, and essential related information are analyzed. Required for vocational teachers, coordinators, and supervisors. Prerequisite: 12 hours in technical subjects. C
- 496-3 Selection and Organization of Subject Matter.** Selection and arrangement of teaching content; preparation of assignment, operation, information, and job sheets; preparation of tests. Prerequisite: 12 hours in industrial education. C
- 497-3 Leaders and Literature in Technological Education.** An understanding of the literature available, one's obligation for keeping abreast of new developments and emphasis on reading and scanning for new ideas in student's specialized field. Prerequisite: 12 hours in industrial education. C
- 498-3 Planning Multiple Activity Programs.** Philosophy, techniques and administration of laboratories and shops featuring multiple offerings. Prerequisite: consent of instructor. C
- 502-6 (3,3) Measurements and Evaluations of Products and Procedures.** Criteria and instrument development, testing techniques, and appraisals. Special emphasis given to the principles and methods of evaluation of progress in laboratory and shop subjects of a practical arts nature. Experience in development and construction of pertinent and effective evaluative devices. C
- 504-4 History of Industrial and Vocational Education.** A study of the leaders, organizations, and movements in the evolution of modern technological education. C
- 505-4 Administration and Supervision of Industrial Education.** Principles, practices, and techniques relating to supervising and administering local programs. Required for vocational coordinators and supervisors. C
- 506-4 Cooperative Programs.** Problems and procedures involved in setting up and operating cooperative work-study programs. Required for vocational coordinators. C
- 540-2 to 6 Research in Technological Education.** Basic research methods and techniques in the design, investigation, and reporting of research studies relating to technology and technological education. C
- 541-4 Occupational Information and Guidance.** Designed for school counselors, industrial supervisors, and teachers to give them orientation to and experience with occupational information and vocational adjustment. C
- 550-4 College Teaching of Industrial and Technical Subjects.** Problems of college students and their adjustments to college-level industrial and technical subject-matter. Organization of instructional materials; methods of instruction; organization and administration of college laboratory facilities; and the professional problems, ethics, and advancement of college technical teachers. C
- 560-2 to 12 (2 to 8 per quarter) New Developments in Technological Education.** An



intensive course designed to acquaint graduate students and teachers with the most recent and significant developments, pressing problems, and emerging trends in the industrial education and technical fields. Selected subjects will be considered by recognized authorities in the field, who will present their ideas and conduct discussions on the selected topics. C

**570-2 to 6 Special Investigations.** (Same as Applied Science 570.) C

**580-1 to 9 Seminar.** (Same as Applied Science 580.) C

**599-1 to 9 Thesis.**

## THEATER

**402-8 (4,4) Play Directing.** (a) The principles and procedures of play direction including play selection, interpretation, and the patterning of auditory and visual stimuli. (b) Continuation of 402a emphasizing rehearsal procedures, control of tempo and mood, styles of presentation and performance, and other techniques in the direction of plays.

**403-4 Aesthetics of the Drama and the Theater.** Principles and practice of modern dramatic production in the light of modern aesthetic theory. A course attempting to formulate an aesthetic judgment of the theater. C

**404-4 Theater Management.** Theater operational procedure, including both fundamental structuring and house management. The former aspect includes administration, purchasing, and accounting practices, ticket sales, publicity, promotion, and public relations. The latter covers the management of box-office and ushering. C

**405-8 (4,4) The Scenic Imagination.** (a) A study of the purely creative side of stage production. It includes an analysis of the script and its meaning for an audience; a poetic evaluation of the setting, costumes, and lighting; and the blocking out of the stage action. (b) Theater research and documentation; an approach to sketches and models; a review of the historic forms of staging, with emphasis on the modern styles from naturalism to epic theater. C

**406-1 American Professional Theater Procedures and Practices.** An introduction to the everyday realities of a professional stage career, including problems of survival, professional ethics and protocol, personal relations, and the function of stage unions. C

**409-4 High School Theater and Its Production Problems.** Consideration of stages, machinery, equipment, light controls and instruments, production techniques, and analysis of basic needs of high school theater. C

**410-3 Children's Theater.** Creative dramatics; dramatization of children's literature; play production for elementary schools. Recommended for education concentrations.

**411-4 Playwriting.** The writing of a full-length play, a children's play, or a historical pageant-drama forms the basis of the course. Students may elect to write two one-act plays. Individual conferences supplement the class discussion and analysis of student writing. Prerequisite for graduate students: consent of instructor. C

**412-4 Stage Design.** The design of settings for the stage and other dramatic media. Prerequisite: 207. C

**414-4 Costume Design.** C

**415-4 Advanced Costume Design.** C

**432-4 Stage Lighting.** Instruments and control equipment; principles and techniques of lighting dramatic productions. C

**438-4 Contemporary Developments in the Theater.** Critical study of theory and practice in acting, directing, production, and architecture in the modern theater. The rise and development of the film, radio, and television as dramatic media.

**502-4 Advanced Directing.** Study of and practice in the techniques of directing period plays, verse plays, music dramas, arena productions and other types and styles of plays presenting special directing problems. C

**503-4 Advanced Technical Problems.** Solutions for problems presented by certain types of plays and modes of production. Study of drawing problems in the planning of floor plans, pictorial views, working drawings, and elevations. C

**504-4 The Comic Theater.** A study of comedic theory as applied to major types of dramatic composition. Dramatic theories of comedy from Aristotle to Freud are explored. Individual reports. C



**505-4 The Tragic Theater.** An examination of tragic drama and criticism as related to the societies which produced such drama. Particular emphasis is placed upon the Athenian, Elizabethan and modern theater. C

**506-4 The American Theater.** The study of the development of the drama and the theater in the United States from colonial times to the present. Prerequisite: 313 or its equivalent. C

**509-4 The High School Theater and its Production Problems.** Consideration of stages, machinery, equipment, light controls and instruments, production techniques, and analysis of basic needs of high school theater. C

**518-4 Theater Audience.** A course attempting to determine (1) the relations between the drama, *mise-en-scene*, and theater audience; and (2) the psychological nature of the spectator's experience in the theater. C

**519-1 to 12 Theater Practicum.** Practical experience in acting, directing, and associated work on campus, on area tours, and in summer stock. C

**526-3 Seminar in Theater Arts.** Special problems of interest to the advanced student. C

**530-1 to 4 Research Problems in Theater.** Individual work upon selected problems for research. C

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. C

## ZOOLOGY

**400-2 (C); 400-3 (E) Animal Taxonomy.** The concepts of taxonomy and their use in zoology. Prerequisite: one year of biology or consent of instructor.

**401-5 Genetics.** Principles of inheritance, including genetic mechanisms, mutation, and selection. Prerequisites: 15 quarter hours of biological science and consent of instructor.

**402-4 Natural History of Invertebrate Animals.** Observation, identification, and life histories. Designed for teachers. Not for students specializing in invertebrate zoology. Prerequisite: one year of zoology including 102.

**403-4 Natural History of Vertebrate Animals.** Observation, identification, and life histories. Designed for teachers. Not for students specializing in vertebrate zoology. Prerequisite: one year of zoology including 103.

**404-4 to 8 (C); 404-2 to 8 (E) Zoology Field Studies.** A trip of four to eight weeks to acquaint students with animals in various environments and/or with methods of field study, collection, and preservation. Cost per individual will be approximately \$25 per week. (Only 4 hours may be used for credit.) Prerequisite: consent of department.

**406-4 Protozoology.** Taxonomy, cytology, reproduction, and physiology of unicellular animals including laboratory methods of culturing. Prerequisite: one year of zoology including 102 or consent of instructor.

**407-5 Parasitology.** Principles, collection, identification, morphology, life histories, and control measures. Prerequisite: one year of zoology including 102.

**408-4 Herpetology.** Taxonomic groups, identification, and natural history of amphibians and reptiles. Prerequisite: one year of zoology including 103.

**409-5 Histology of Organs.** Microscopic structure of organs and tissues with emphasis on mammalian forms. Prerequisite: 202. C

**410-4 Vertebrate Paleontology.** History of vertebrate animals in terms of their morphological change, geological succession, and ecological relationships. Prerequisite: 202 or Geology 301. C

**412-4 Advanced Entomology.** Morphology, physiology, systematics, and distribution of insects. Prerequisite: one basic course in entomology.

**413-5 The Invertebrates.** Structure, development, and natural history of invertebrates, except insects and parasites. Prerequisite: one year of zoology including 102. C

**414-4 Fresh-Water Invertebrates.** Taxonomic groups, identification, and natural history of the regional fauna. Prerequisites: one year of zoology including 102.

**441-4 Developmental Biology.** Principles of development and organization. Prerequisites: 300 and one course in cellular physiology, or consent of instructor.

**459-4 Game Birds.** Natural history and management. Prerequisite: one year of zoology including 103. C

- 461-4 Mammalogy.** Taxonomic groups, identification, and natural history of mammals. Prerequisite: one year of zoology including 103.
- 463-4 Game Management.** General survey of management techniques. Prerequisites: one year of biological science, consent of instructor. C
- 465-4 Ichthyology.** Taxonomic groups, identification, and natural history of fishes. Prerequisite: one year of zoology including 103.
- 466-4 Fish Management.** Sampling, dynamics, and manipulation of fish populations, age and growth of fishes, and habitat improvement. Prerequisites: one year of biological science, consent of instructor. C
- 480-3 Zoogeography.** Concepts and principles relating to patterns of animal distribution on a continental and world-wide basis. Prerequisite: 103 or consent of instructor. E
- 501-4 Animal Biology For High School Teachers of Biology.** Designed to add new interpretations and evaluations to the in-service teacher's previous training in animal biology. Principles illustrated by laboratory and field work will be re-emphasized in the context of modern concepts of biology. Prerequisite: one year of biology.
- 502-2 Recent Developments in Biological Sciences.** A series of lectures based upon recent research, designed to acquaint the in-service teacher with advances and changes in concepts. Prerequisite: one year of biological science.
- 507-8 (C); 507-3 to 9 (E) BSCS—High School Biology.**
- 508-4 Helminthology.** Identification, structure, physiology, and life history of parasitic worms. Prerequisite: consent of instructor. C
- 509-8 (2,2,2,2) Topics in Biology.** Lectures, preparation and presentation of papers, and discussion of modern biology from four general aspects: (a) systematic biology, (b) regulatory biology, (c) developmental biology, (d) environmental biology. Sequence may be taken in any order. Prerequisite: consent of instructor. E
- 510-4 Bio-ecology.** Composition and development of biotic communities, and the relationships of plants and animals to their environment. Cost of field trips may be \$10-\$25 per student. Prerequisite: consent of instructor. C
- 511-4 Limnology.** Principles exemplified by the lakes and streams of Southern Illinois. Cost of field trips may be \$10-\$25 per student. Prerequisite: consent of instructor.
- 512-3 Animal Geography.** Principles of the distribution of the animals of the world. Prerequisite: consent of instructor. C
- 513-3 Advanced Ornithology.** Taxonomic groups, structure, and behavior of birds. Prerequisite: consent of instructor. C
- 520-5 Advanced Invertebrate Zoology.** The nature and life of invertebrate animals with emphasis on comparative form, function, behavior, and occurrence. Prerequisite: consent of instructor.
- 521-4 Advanced Limnology.** The chemical and physical characteristics and biological productivity of waters. Cost of field trips may be \$10-\$25 per student. Prerequisite: consent of instructor. C
- 525-5 Cytology.** (Same as Botany 525.) Microscopic study of protoplasm, including mitosis and meiosis; discussions of cytological behavior. Prerequisite: consent of instructor. C
- 540-3 Factors in Animal Reproduction.** Genetic and physiological factors in determination, differentiation, and modification of sex in animals. Prerequisite: consent of instructor. C
- 542-3 Osteology.** Modification of the vertebrate skeleton as a result of growth, functional adaptation, and phylogenetic relationship. Prerequisite: consent of instructor. C
- 560-3 Advanced Wildlife Management.** Principles of maintenance, and improvement and administration of wildlife resources. C
- 561-4 Game Mammals.** Natural history and management. Prerequisite: consent of instructor. C
- 566-4 Fish Culture.** Production of game, food, and bait fishes. Design of facilities, chemical and biological variables, spawning techniques, diseases and nutrition. Prerequisite: consent of instructor. C
- 577-3 Population Ecology.** Principles of population dynamics as related to animals. Prerequisite: consent of instructor. C
- 578-4 Population Genetics.** Genetic structure of populations, factors causing changes,



and principles governing rate and direction of change. Prerequisite: consent of instructor.

**579-4 Animal Behavior.** The biological basis for the actions and responses of animals. Prerequisite: consent of instructor. C

**580-4 Advanced Systematics.** The implication of systematics, including the theory and dynamics of classification, speciation, population genetics, and evolution. Prerequisite: consent of instructor. C

**581-3 Readings in Current Zoological Literature.** Prerequisite: graduate status in a biological science.

**582-1.5 (.5,.5,.5) Graduate Zoology Seminar.** Credit may not be used by majors in zoology.

**583-3 (1,1,1) The Teaching of Zoology in College.** Methods, practices, and objectives in teaching zoology. Designed as part of the apprenticeship program for preparation of college teachers. Prerequisite: graduate status in a biological science. C

**584-3 (1,1,1) Protozoology Seminar.** Advanced discussions of trends and problems in protozoology. Prerequisite: 406 or consent of instructor. C

**596-2 to 12 Special Research.** Investigations in zoology other than those for theses. Only 3 hours may be credited toward a degree. Prerequisite: consent of instructor.

**599-2 to 9 Research and Thesis.** For master's degree. C

**600-3 to 48 Research and Dissertation.** For Doctor of Philosophy degree. C



# The Graduate Faculty

## 4

Graduate Instruction at Southern Illinois University is the responsibility of the Graduate Faculty, which is selected from the faculties of the several instructional units at Carbondale and Edwardsville. Although the Graduate Faculty is not organized into departments, its members are normally affiliated with specific disciplines.

Preceding the Graduate Faculty is a list of faculty members elected to the Graduate Council for the year 1967.

### GRADUATE COUNCIL

**James Austin**, Professor of English

**Roger Beyler**, Dean of the College of Liberal Arts and Sciences; Professor of Chemistry.

**P. Roy Brammell**, Assistant Dean for Graduate Study, College of Education; Professor of Administration and Supervision.

**Elmer J. Clark**, Dean of the College of Education; Professor of Educational Psychology.

**Howard V. Davis**, Professor of Guidance.

**John Glynn**, Professor of Economics.

**Paul Guenther**, Professor of German and Comparative Literature.

**Lewis E. Hahn**, Research Professor of Philosophy.

**Scott Hanners**, Professor of Animal Industries.

**David T. Kenney**, Associate Professor of Government.

**Willard Klimstra**, Chairman of the Graduate Council; Director of the Cooperative Wildlife Research Laboratory; Professor of Zoology.

**David Rands**, Associate Professor of Chemistry.

**Ernest L. Schusky**, Associate Professor of Anthropology.

**E. Earle Stibitz**, Associate Professor of English.

**Donald A. Wells**, Associate Professor of Economics.

**Walter Wills**, Chairman of the Department of Agricultural Industries; Professor of Agricultural Economics.

### CARBONDALE CAMPUS

#### COLLEGE OF LIBERAL ARTS AND SCIENCES

##### ANTHROPOLOGY

**Professors** Philip J. C. Dark, J. Charles Kelley, Charles H. Lange (**Chairman**), Robert L. Rands, Walter W. Taylor

**Associate Professors** Carroll L. Riley

**Assistant Professors** Milton Altschuler, Jerome S. Handler, Bruce B. MacLachlan, D. Lee Guemple, Roy Wagner, Jon D. Muller

**Instructor** Joel Maring

##### BOTANY

**Professors** William D. Gray, Robert H. Mohlenbrock (**Chairman**), L. V. Olah, Jacob Verduin, John W. Voigt, Walter B. Welch

**Associate Professors** William C. Ashby, Margaret Kaeiser, Aristotel Pappelis

**Assistant Professors** W. Hardy Eshbaugh, Lawrence Matten, Walter E. Schmid, Donald R. Tindall

**CHEMISTRY**

**Professors** Roger E. Beyler, Elbert H. Hadley, J. W. Neckers, Kenneth A. Van Lente, Robert W. MacVicar

**Associate Professors** James N. BeMiller (**Acting Chairman**), Albert L. Caskey, J. Herbert Hall, Cal Yale Meyers, Wilbur N. Moulton, Boris Musulin, Charles D. Schmulbach, Gerard V. Smith, Russell F. Trimble, Robert E. Van Atta

**Assistant Professors** Donald W. Slocum

**ENGLISH**

**Research Professor** Harry T. Moore

**Professors** James Benziger, E. C. Coleman, Hugh D. Duncan, William H. Evans, Robert D. Faner (**Chairman**), Joseph Friend, J. W. Harris, Sidney P. Moss, Henry Dan Piper, William E. Simeone, Charles D. Tenney, David Vieth, Georgia G. Winn

**Associate Professors** Ted R. Boyle, Daniel Cook, Edmund Epstein, John Gardner, Mark Hillegas, Paul H. Morrill, Charles Parish, Robert Partlow, E. Earle Stibitz, Howard Webb

**Assistant Professors** George Camp, John Howell, Paul Hurley, Raymond S. Rainbow, Byron Raizis

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**Visiting Professor** T. W. Baldwin

**FOREIGN LANGUAGES**

**Professors** A. W. Bork, Boyd Carter, J. Cary Davis (**Chairman**), H. A. Hartwig, Vera L. Peacock

**Associate Professors** Mary Eileen Carter, H. P. French, D. L. Gobert, Joseph Kupcek, Helmut Liedloff, Meyer Reinhold, Madeleine Smith, Hensley Woodbridge

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**Visiting Professors** Jenaro Artiles, Adolf Zucker, Luis A. Baralt

**GEOGRAPHY**

**Professors** Campbell W. Pennington, Robert A. Harper (**Chairman**), Douglas B. Carter, T. J. Denis Fair

**Associate Professors** Frank H. Thomas, David L. Jones, Theodore H. Schmulde, David E. Christensen, Annemarie E. Krause

**Assistant Professor** John Rooney

**GEOLOGY**

**Professors** F. D. Bloss, S. E. Harris, Jr.

**Associate Professor** D. N. Miller, Jr. (**Acting Chairman**)

**Assistant Professor** Frank J. Bell

**GOVERNMENT**

**Professors** Abdul Majid Abbass, Orville Alexander (**Chairman**), Ikua Chou, Jack F. Isakoff, Horace B. Jacobini, Frank L. Klingberg, Robert McGrath, Ward M. Morton, Randall H. Nelson, John S. Rendleman, Max W. Turner

**Associate Professors** William Garner, Charles T. Goodsell, William S. Hardenbergh, Earl Hanson, Melvin Kahn, David Kenney, Marian Ridgeway, Max Sappenfield

**Assistant Professors** John H. Baker, Manfred Landecker, Norman R. Luttbeg, Leland G. Stauber, Stephen L. Wasby

**Instructor** Joann Paine

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**Adjunct Professor** Richard Dale

**Visiting Professor** Frederic Guild

HISTORY

**Research Professor** C. Harvey Gardiner

**Professors** George W. Adams (**Chairman**), Ping-Chia Kuo, Roland N. Stromberg

**Associate Professors** Harry Ammon, George Cherry, John Clifford, Betty Fladeland, William Pitkin, Lon R. Shelby, John Y. Simon

**Assistant Professors** Howard Allen, Bernard K. Dehmelt, Sanford Elwitt, Geraint N. D. Evans, Robert Gold, Hanns Gross

MATHEMATICS

**Professors** Nicolas Artemiadis, Amos Black, Lauwerens Kuipers, Carl E. Langenhop, Abraham Mark, Charles N. Maxwell, Wilbur C. McDaniel, John M. H. Olmsted (**Chairman**)

**Associate Professors** Theodore A. Burton, Neal E. Foland, Leslie D. Gates, Robert Hunt, Morton R. Kenner, Robert A. Moore, Ernest E. Shult, Michael Skalsky, Herbert H. Snyder, Thomas H. Starks, Joseph C. Wilson

**Assistant Professors** Zamir Bavel, Ramendra K. Bhattacharya, Charles F. Koch, Thomas B. Paine, Franklin D. Pedersen, Michael G. Poole, Norman F. Robinson, Carl G. Townsend

**Instructor** Katherine L. Pedersen

MICROBIOLOGY

**Professors** Carl C. Lindegren (**Emeritus**), Maurice Ogur (**Chairman**), Isaac L. Shechmeister

**Associate Professor** Dan O. McClary

PHILOSOPHY

**Research Professor** Lewis E. Hahn

**Professors** Wayne A. R. Leys, William McKeefery, Willis Moore (**Chairman**), George Kimball Plochmann, Charles D. Tenney, Henry N. Wieman (**Emeritus**)

**Associate Professors** James A. Diefenbeck, Elizabeth R. Eames, S. Morris Eames, George T. McClure

**Assistant Professors** David S. Clarke, Jr., Don Ihde, Matthew J. Kelley, Shu-hsien Liu

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**Visiting Professors** George E. Axtelle, Luis A. Baralt, Paul A. Schilpp

PHYSICS

**Professors** Martin Joseph Arvin, John J. O'Dwyer, Richard E. Watson, Otis B. Young, John Zimmerman (**Chairman**)

**Associate Professor** William E. Nickell

**Assistant Professors** Gerald P. Alldredge, Walter C. Henneberger, W. Richard Klein, Richard L. Linster, Mykola Saporoschenko

**Instructor** Robert C. Etherton

PHYSIOLOGY

**Professors** Jay A. Bender, George Gass, Harold M. Kaplan (**Chairman**), Alfred W. Richardson

**Associate Professors** Tom T. Dunagan, Florence Foote, Richard H. Gier, Richard V. Lee, Joseph P. Miranti

PSYCHOLOGY

**Research Professor** Noble H. Kelley

**Professors** Loren Chapman, David Ehrenfreund (**Chairman**), Alfred Lit, William C. Westberg

**Associate Professors** Sheldon Alexander, Neil A. Carrier, William Gerler, Herbert Levitt, James H. McHose, John G. Martire, Janet E. Rafferty, Donald J. Shoemaker, Edward S. Sulzer, Clayton Ladd



**Assistant Professors** James W. Hill, Charles J. Long, Gordon F. Pitz, Robert C. Radtke, Thomas R. Schill

**SOCIOLOGY**

**Professors** Hugh Dalziel Duncan, Elmer Hubert Johnson, Joseph Kelly Johnson, Herman R. Lantz, Peter Andreas Munch, Charles Royce Snyder (**Chairman**)

**Associate Professors** Melvin Schubert Brooks, Eloise Colleen Snyder

**Assistant Professors** Monte Rae Blair, Joe Carroll Eades, Harry Gold, Norris Carter Larson, Frank Comstock Nall, Robert Denton Rossel

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**Visiting Professor** Gunnar Boalt

**ZOOLOGY**

**Professors** Richard E. Blackwelder, Harvey I. Fisher (**Chairman**), Edwin C. Galbreath, Willard D. Klimstra, William M. Lewis

**Associate Professors** John C. Downey, George Garoian, Hermann J. Haas, Howard J. Stains

**Assistant Professors** Ronald A. Brandon, DuWayne C. Englert, William George, Jan Martan, John Stahl, Eugene LeFebvre

**Instructor** Joseph Beatty

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**Visiting Professor** Richard R. Kudo

**COLLEGE OF EDUCATION**

**ADMINISTRATION AND SUPERVISION**

**Professors** Jacob O. Bach (**Chairman**), George Bracewell, Roy P. Brammell, Royce R. Bryant, John L. Childs (**Emeritus**), Raymond H. Dey, Parmer Ewing, Robert Jacobs, Eugene S. Lawler (**Emeritus**), Arthur E. Lean, William R. McKenzie, Charles D. Neal

**Associate Professors** Fred J. Armistead, Woodson W. Fishback, James Herrick Hall

**Assistant Professors** Leslie J. Chamberlin, Dale Kaiser, Edward B. Sasse

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# Index



- Academic advisement, 9
- Academic load for students, 9
- Administration and supervision, educational, Carbondale Campus: graduate degrees in, 41; course descriptions, 99; faculty, 180; Edwardsville Campus: specializations in, 23; course descriptions, 99; faculty, 184
- Admission to the graduate school: application for, 6; conditional, 6; unconditional, 6; unclassified, 6; for graduate study, 7; for Sixth-Year Specialist's Certificate, 8; for international students, 8
- Advanced degrees, 12, 14, 15, 16
- Advisement, academic, 9
- Advisers, graduate, 10
- Advisory committee, 9
- Agricultural industries: graduate degree in, 27; course descriptions, 80; faculty, 181
- A. L. Bowen Children's Center, mentioned, 71
- Anna State Hospital, mentioned, 71
- Animal industries: graduate degrees in, 28; course descriptions, 81; faculty, 181
- Anthropology: graduate degrees in, 31; course descriptions, 82; faculty, 177
- Applied science and engineering technology: areas of study in, 31; course descriptions, 84; faculty, 184
- Art: graduate degrees in, 32; course descriptions, 87; faculty, 183
- Asian studies, graduate minor in, 33
- Assistantships: awarding of, 5; research, 5
- Biological sciences: admission to, 33; degree requirements in, 33
- Botany: graduate degrees in, 34; course descriptions, 88; faculty, 177
- Business administration: organization of, 34; graduate degree in, 35; course descriptions, 91; faculty, 182
- Calendar, University, v
- Chemistry: graduate degrees in, 36; course descriptions, 92; faculty, 178
- Committee, advisory, 9
- Community development, minor in, 37
- Community Development Institute, 38, 47, 73
- Computer programming as a foreign language, 18
- Counseling and Testing Center, 14
- Course load, normal, 9
- Data processing, services provided, 3
- Degrees, advanced, 12, 13, 21
- Design: graduate degree in, 38; course descriptions, 95; faculty, 183
- Doctor of Philosophy degree, general requirements for, 17
- Economics: graduate degrees in, 39; preliminary examination, 39; course descriptions, 96; faculty, 182
- Educational administration and supervision, Carbondale Campus: graduate degrees in, 41; course descriptions, 99; faculty, 180; Edwardsville Campus: specialization in, 23; course descriptions, 99; faculty, 184
- Education, Carbondale Campus: graduate program in, 40; application to, 40; advisement, 40; preliminary examination, 41; dissertation, 41
- Education Division, Edwardsville Campus, 8, 16, 17, 22
- Elementary education: graduate degrees in, 43; course descriptions, 101; faculty, 180; Edwardsville Campus: concentrations in, 23; course descriptions, 101; faculty, 184
- Engineering, study areas in, 44; course descriptions, 104; faculty, 184
- Engineering technology, 44; course descriptions, 107; faculty, 184
- English: graduate degrees in, 44; course descriptions, 108; faculty, 178
- English as a foreign language, 45
- English test, (TOEFL), 8
- Fees: matriculation, 11; late fee, 11; graduation fee, 11
- Fellowships, graduate, awarding of, 4
- Financial assistance, student work and, 11
- Foreign languages: graduate degrees in, 45; course descriptions, 112; faculty, 178
- Foreign language, computer programming as a, 18
- Foreign language examination, 15, 18
- Forestry: graduate degree in, 46; course descriptions, 116; faculty, 181

- Geographical studies, Edwardsville Campus: graduate degrees in, 26; course descriptions, 117; faculty, 186
- Geography: graduate degrees in, 46; course descriptions, 117; faculty, 178
- Geology: graduate degrees in, 48; course descriptions, 119; faculty, 178
- Government: graduate degrees in, 49; course descriptions, 120; faculty, 178
- Grading system, 13
- Graduate advisers, 10
- Graduate degrees, 12, 13, 21
- Graduate English Examination, 14
- Graduate faculty: Carbondale Campus, 177; Edwardsville Campus, 184
- Graduate Record Examination, 29, 39, 40, 54, 62, 64, 65
- Graduate School: establishment of, 1; role of, 1
- Graduate students: advisement of, 9; classification of, 6; requirements for admission of, 6
- Grants-in-aid, 11
- Guidance and educational psychology: graduate degrees in, 52; course descriptions, 124; faculty, 180
- Guidance, Edwardsville Campus: specialization in, 22; course descriptions, 124; faculty, 185
- Health education: graduate degrees in, 53; course descriptions, 127; faculty, 180
- Health Services, 12; emergency services, 12
- Higher education: graduate degrees in, 53; course descriptions, 129; faculty, 180
- History: graduate degrees in, 54; course descriptions, 130; faculty, 179
- Home economics: graduate degrees in, 54; specializations, 54; course descriptions, 94, 111, 132, 133; faculty, 183
- Housing, University, cost of, 5
- Inter-American studies: departments offering work in, 57; graduate degree in, 57
- International students, admission of, 8
- Instructional materials: graduate degrees in, 56; course descriptions, 134; faculty, 181
- Instructional supervision, 42
- Instructional units: Carbondale Campus, 27-78; Edwardsville Campus, 22-27
- Journalism: graduate degrees in, 58; course descriptions, 136; faculty, 182
- Language requirement, 18
- Letitia Walsh Award, loan of \$5,000, mentioned, 54
- Libraries, University, 1
- Literary and Linguistic studies, Edwardsville Campus: graduate degree in, 25; course descriptions, 108; faculty, 185
- Loan fund, student, 11
- Lovejoy Library, 1
- Mathematics and mathematical sciences, Carbondale Campus: graduate degrees in, 58; course descriptions, 139; faculty, 179; Edwardsville Campus: graduate degrees in, 26; course descriptions, 139; faculty, 186
- Master of Arts, Carbondale Campus: general requirements for, 15, 21; Edwardsville Campus, 21
- Master of Business Administration: organization, 34; programs in, 34; admission to, 35; degree requirements, 35
- Master's degrees, general requirements, 14, 22
- Master of Fine Arts, general requirements, 15
- Master of Music, general requirements, 16
- Master of Music Education, general requirements, 16
- Master of Science, Carbondale Campus: general requirements, 15; Edwardsville Campus, 21
- Master of Science in Education, Carbondale Campus: general requirements, 16; Edwardsville Campus, 21
- Microbiology: graduate degrees in, 60; course descriptions, 143; faculty, 179
- Miller Analogy Test, 40, 61, 62
- Morris Library, 1
- Music: graduate degrees in, 60; course descriptions, 144; faculty, 183
- National Council for Accreditation of Teacher Education, mentioned, 43
- National Defense Education Act, 4
- Ohio State Psychological Test, 55
- Philosophy: graduate degrees in, 61; course descriptions, 146; faculty, 179
- Physical education: graduate degrees in, 63; course descriptions, 147; faculty, 181
- Physics: graduate degrees in, 64; course descriptions, 148; faculty, 179
- Physiology: graduate degree in, 65; course descriptions, 150; faculty, 179
- Placement Services, University, 12
- Plant industries: graduate degrees in, 66; course descriptions, 151; faculty, 182
- Prizes, financial, 11
- Psychology: graduate degrees in, 67; course descriptions, 152; faculty, 179
- Public Law 88-164, 74
- Publications, University, 10

- Recreation and outdoor education: graduate degree in, 70; course descriptions, 155; faculty, 181
- Rehabilitation: programs in, 70; course descriptions, 156; faculty, 181
- Research assistantships, 5
- Research, policies governing, 3
- School library, minor in, 56
- Secondary education, Carbondale Campus: graduate degrees in, 72; course descriptions, 158; faculty, 181; Edwardsville Campus: graduate degrees in, 24; course descriptions, 158; faculty, 184
- Secretarial and business education: graduate degrees in, 72; course descriptions, 160; faculty, 182
- Sixth-Year Specialist's Certificate, Carbondale Campus: admission to, 8; general requirements, 16; Edwardsville Campus, general requirements, 25
- Sociology: graduate degrees in, 73; course descriptions, 161; faculty, 180
- Special education, Carbondale Campus: graduate degrees in, 73; teacher certification, 73; course descriptions, 165; faculty, 181; Edwardsville Campus: course descriptions, 165; faculty, 185
- Specialist's Certificate, 8, 16, 21, 41, 42, 43, 52, 72, 74
- Speech: graduate degrees in, 74; course descriptions, 168; faculty, 183
- Speech pathology and audiology: graduate degrees in, 75; course descriptions, 170; faculty, 183
- Student Affairs Division, 53
- Student Counseling and Testing Center, 14
- Student loan fund, 11
- Student work and financial assistance, 11
- Supervision, educational administration and, Carbondale Campus: graduate degrees in, 4; course descriptions, 99; faculty, 180; Edwardsville Campus: specializations in, 23; course descriptions, 99; faculty, 184
- Technical and industrial education: graduate degrees in, 76; course descriptions, 171; faculty, 184
- Testing Center, Student Counseling and, 14
- Transfer credit, 17, 18
- Theater: graduate degrees in, 77; course descriptions, 173; faculty, 183
- Tuition and fees, 11
- Unclassified students, 6
- University calendar, v
- University Health Services, 12
- University Libraries, 1
- University Placement Services, 12
- University Publications, 10
- Zoology: graduate degrees in, 78; course descriptions, 174; faculty, 180







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*Schedule of Classes*  
*Carbondale Campus*  
*1967-68*



**Southern Illinois  
University Bulletin**

## This Bulletin

contains the schedule of classes to be offered by the Carbondale Campus for the fall, winter, and spring quarters of the 1967-68 school year at Carbondale, Southern Acres, and Little Grassy Lake. It also provides information relative to admission, advisement, registration, and fees.

# Schedule of Classes

*Fall, 1967, through Spring, 1968*

*Carbondale Campus*

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# Contents

Registration Calendars .....	iii
University Calendar .....	vi
Calendar of Events .....	vii
 GENERAL INFORMATION .....	 1
Admission .....	1
Registration and Advisement .....	1
New Students .....	2
Re-entering Students .....	2
Current Students, Carbondale Campus .....	2
Current Students, Edwardsville Campus .....	3
Payment of Fees .....	3
Fees for a Regular Quarter .....	3
Registration for Night and/or Saturday Classes .....	4
Late Registration .....	4
Auditing of Courses .....	4
Program Changes .....	5
Dropping a Course .....	5
Changing Fee Status .....	5
Withdrawal from School .....	6
Cancellation of Registration .....	6
Personal Data Changes .....	6
 SCHEDULE OF CLASSES .....	 7
Listing of Courses .....	7
Course Numbers and Hours .....	7
Prerequisite .....	7
Section Number, Time, and Days .....	8
Building and Room Number .....	8
Explanation of Entries .....	9
Schedule of General Studies Courses .....	10
Schedule of Departmental Courses .....	78

# Registration Calendar

*Fall, 1967*

**April 10–May 26.** Advance registration period only for students enrolled in the 1966 spring quarter. Students on scholastic probation desiring to register for both summer and fall must wait until June 26 or later to register for fall.

**June 26–August 25.** Advance registration period for all students. New and re-entry students must have completed admission procedures. New students must refer to page 1 for further information on advisement and registration. Students for whom the 1966 summer quarter constitutes their first attendance at Southern must delay registering for fall until July 3 or later so that the student Biographic Data Sketch will be available for them at the time of registration.

**August 30.** Students will have their advance registrations cancelled if fees are not paid at the Bursar's Office by 4:00 P.M., C.D.T., on this date, unless they have received approval for deferred payment.

**September 17–19.** New Student Days. New students (undergraduate and graduate) who did not advance register may do so. All others must wait until Wednesday, September 20.

**September 20.** Fall quarter begins. Last day of regular registration. *All students are expected to have completed registration by this date.* Any exceptions will involve late registration fee changes. Night classes (5:45 P.M. or later) begin. Fall extension classes begin.

**September 21.** Day classes begin. Program change processing will start.

**September 26.** Registration for the fall quarter ends. This also includes the registration into new courses or the changing of sections through the program change process.

**October 3.** Last day to officially withdraw from school to be eligible for a refund of fees. Deadline for payment of fees by students whose fees were deferred.

**October 17.** Last day for undergraduates to officially withdraw from a course without receiving a letter grade. Graduate students officially dropping a course after this date need not be given an evaluative letter grade. Last day to change from credit to audit or vice versa for all students.

**November 28.** Last day for making a program change or withdrawing from school except under exceptional conditions.

# Registration Calendar

## *Winter, 1968*

**October 4–November 21 and November 27–December 8.** Advance registration period for all students. New students should refer to the Advisement and Registration Procedure on page 1 for further procedural information. *All continuing students are expected to be registered by December 8.*

**December 13.** Students will have their advance registrations cancelled if fees are not paid at the Bursar's Office by 4:00 P.M. on this date unless they have received approval for deferred payment.

**January 2.** Winter quarter begins. Last day of regular registration period. Only new and re-entering students will be advised and registered. *All students are expected to have completed registration by this date.* Any exceptions will involve late registration fee charges. Night classes (5:45 P.M. or later) begin.

**January 3.** Day classes begin. Program change processing will start.

**January 8.** Registration for the winter quarter ends. This also includes the registration into new courses or the changing of sections through the program change process.

**January 15.** Last day to officially withdraw from school to be eligible for a refund of fees. Deadline for payment of fees by students whose fees were deferred.

**January 29.** Last day for undergraduates to officially withdraw from a course without receiving a letter grade. Graduate students officially dropping a course after this date need not be given an evaluative letter grade. Last day to change from credit to audit or vice versa for all students.

**February 28.** Last day for making a program change or withdrawing from school except under exceptional conditions.



# Registration Calendar

*Spring, 1968*

**January 16–March 8.** Advance registration period for all students. New students should refer to the Advisement and Registration procedure on page 1 for further procedural information. *All continuing students are expected to be registered by March 17.*

**March 13.** Students will have their advance registrations cancelled if fees are not paid at the Bursar's Office by 4:00 P.M. on this date unless they have received approval for deferred payment.

**March 25.** Spring quarter begins. Last day of regular registration period. Only new and re-entering students will be advised and registered. *All students are expected to have completed registration by this date.* Any exceptions will involve late registration fee charges. Night classes (5:45 P.M. or later) begin.

**March 26.** Day classes begin. Program change processing will start.

**March 30.** Registration for the spring quarter ends. This also includes the registration into new courses or the changing of sections through the program change process.

**April 5.** Deadline for payment of fees by students whose fees were deferred.

**April 6.** Last day to officially withdraw from school to be eligible for a refund of fees.

**April 20.** Last day for undergraduates to officially withdraw from a course without receiving a letter grade. Graduate students officially dropping a course after this date need not be given an evaluative letter grade. Last day to change from credit to audit or vice versa for all students.

**May 22.** Last day for making a program change or withdrawing from school except under exceptional conditions.

# University Calendar

## *Fall Quarter, 1967*

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Vacation	Tuesday, 10 P.M.–Monday, 8:00 A.M., November 21–27
Final Examinations	Monday–Saturday, December 11–16
Quarter Ends	Saturday, December 16

## *Winter Quarter, 1968*

Quarter Begins	Tuesday, January 2
Final Examinations	Monday–Saturday, March 11–16
Quarter Ends	Saturday, March 16

## *Spring Quarter, 1968*

Quarter Begins	Monday, March 25
Memorial Day Holiday	Thursday, May 30
Final Examinations	Monday–Saturday, June 3–8
Quarter Ends	Saturday, June 8
Commencement (Carbondale)	Friday, June 7
Commencement (Edwardsville)	Saturday, June 8

# Calendar of Events, 1967-1968

This calendar contains all of the dates and events within the official University calendar. It also lists certain test dates and a few other all-university events which are related to the academic program.

## September

- 17, Sunday. New Student Days begin.  
19, Tuesday. New Student Days end.  
20, Wednesday. Fall quarter begins. Evening classes (5:45 P.M. or later) begin.  
21, Thursday. Day classes begin.  
22, Friday. Registration closes for the Dental Aptitude Test to be held October 7.

## October

- 6, Friday. Registration closes for the Medical College Admission Test to be held October 21.  
7, Saturday. \* Dental Aptitude Test—8:00 A.M. to 5:00 P.M.  
13, Friday. Registration closes for the Graduate Record Examination to be held October 28.  
20, Friday. Registration closes for the Admission Test for graduate study in business to be held November 4, 1967.  
21, Saturday. \* Medical College Admission Test—8:00 A.M. to 5:00 P.M.  
21, Saturday. \* American College Testing Program—8:00 A.M. to 1:00 P.M.  
27, Friday. Registration closes for the Law School Admission Test to be held November 11, 1967.  
27, Friday. Registration closes for the MLA Foreign Language Proficiency Tests to be held November 18, 1967.  
28, Saturday. \* Graduate Record Examination—8:00 A.M. to 5:00 P.M.  
28, Saturday. Deadline for application for admission to Graduate School to be considered a degree candidate for Winter Quarter.  
28, Saturday. Homecoming. Classes which meet on Saturday morning will meet; other Saturday classes are dismissed.

## November

- 4, Saturday. Admission Test for graduate study in business, 8:00 A.M.—1:00 P.M.  
11, Saturday. Law School Admission Test, 8:00 A.M.—5:00 P.M.



11, Saturday. Foreign Language Examination—10:00 A.M. to 12 Noon, Wheeler Hall.

18, Saturday. MLA Foreign Language Proficiency Tests 8:00 A.M.—4:00 P.M.

21, Tuesday. Thanksgiving Recess begins, 10:00 P.M.

27, Monday. Thanksgiving Recess ends, 8:00 A.M.

### December

9, Saturday. \* American College Testing Program—8:00 A.M. to 1:00 P.M.

11, Monday. Fall quarter final examination begin.

16, Saturday. Fall quarter final examinations end.

### January

2, Tuesday. New Student Day. Winter quarter begins. Evening classes (5:45 P.M. or later) begin.

3, Wednesday. Day classes begin.

5, Friday. Registration closes for the Graduate Record Examination to be held January 20.

19, Friday. Registration closes for the Admission Test for graduate study in business to be held February 3, 1968.

20, Saturday. \* Graduate Record Examination—8:00 A.M. to 5:00 P.M.

26, Friday. Registration closes for the Law School Admission Test to be held February 10, 1968.

27, Saturday. Deadline for application for admission to Graduate School to be considered as a degree candidate for Spring quarter.

### February

1, Thursday. Deadline for Graduate Fellowship application for the academic year 1967–1968.

3, Saturday. Admission Test for graduate study in business, 8:00 A.M.—1:00 P.M.

10, Saturday. Law School Admission Test, 8:00 A.M.—5:00 P.M.

10, Saturday. Foreign Language Examination—10:00 A.M. to 12 Noon, Wheeler Hall.

17, Saturday. \* American College Testing Program—8:00 A.M. to 1:00 P.M.

### March

8, Friday. Registration closes for the MLA Foreign Language Proficiency Tests to be held March 30, 1968.

11, Monday. Winter quarter final examinations begin.

16, Saturday. Winter quarter final examination end.

22, Friday. Registration closes for the Admission Test for graduate study in business to be held April 6, 1968.

22, Friday. Registration closes for the Law School Admission Test to be held April 6, 1968.

22, Friday. Registration closes for the National Teacher Examinations to be held April 6, 1968.

25, Monday. New Student Day. Spring quarter begins. Evening classes (5:45 P.M. or later) begin.

26, Tuesday. Day classes begin.

30, Saturday. Deadline for application for admission to Graduate School to be considered a degree candidate for Summer quarter.

**30, Saturday.** MLA Foreign Language Proficiency Tests, 8:00 A.M.—4:00 P.M.

### **April**

**6, Saturday.** Admission Test for graduate study in business, 8:00 A.M.—1:00 P.M.

**6, Saturday.** Law School Admission Test, 8:00 A.M.—5:00 P.M.

**6, Saturday.** National Teacher Examinations, 8:00 A.M.—5:00 P.M.

**12, Friday.** Registration closes for the Graduate Record Examination to be held April 27.

**12, Friday.** Registration closes for the Dental Aptitude Test to be held April 27.

**26, Friday.** Registration closes for the MLA Foreign Language Proficiency Tests to be held May 18, 1968.

**27, Saturday.** \* Graduate Record Examination—8:00 A.M. to 5:00 P.M.

**27, Saturday.** \* Dental Aptitude Test—8:00 A.M. to 5:00 P.M.

### **May**

**4, Saturday.** Deadline to file Application for June graduation.

**11, Saturday.** Foreign Language Examination. 10:00 A.M. to 12 Noon. Wheeler Hall.

**11, Saturday.** \* American College Testing Program—8:00 A.M. to 1:00 P.M.

**18, Saturday.** MLA Foreign Language Proficiency Tests, 8:00 A.M.—4:00 P.M.

**18, Saturday.** Last day to submit theses and dissertations to the Graduate School for approval in order to be graduated in June.

**30, Thursday.** Memorial Day Holiday.

### **June**

**3, Monday.** Spring Quarter final examinations begin.

**8, Saturday.** Spring Quarter final examinations end.

\* Pre-registration is required. For details contact the Testing Center.





# General Information

## 1

This Bulletin contains the schedule of classes for the fall, winter, and spring quarters, 1967-1968 for the Carbondale Campus. It also provides information relative to advisement and registration, fees, and allied information for the Carbondale Campus.

### ADMISSION

Inquiries concerning undergraduate admission to the Carbondale Campus should be directed to the Admissions Office; those on the graduate level to the Graduate School. Deadlines for admission application can be found in the Calendar of Events on the preceding pages. Undergraduate admission applications should be completed at least thirty days in advance of the desired entrance date.

### REGISTRATION & ADVISEMENT

The Carbondale Campus uses an academic advisement system whereby each undergraduate academic unit has a chief academic adviser and a number of assistant advisors selected from the teaching faculty. Undergraduate students entering the University for the first time will receive selective dates from the admission process from which they are to select the preferred date on which they will come to the campus to be advised and to advance register. This includes both freshmen and transfer students. They are not to write for appointments nor are they to come to Carbondale expecting to register unless it is the date indicated for them to do so.

Graduate students are to follow the procedures indicated below depending upon whether they are new, re-entering, or continuing students in being advised and registered.

After advisement the student may register for classes. The registration calendar begins on page iii. Ordinarily registration offices are open from 8:00 to 12:00 noon and 1:00 to 5:00 P.M., Monday through Friday, and from 8:30 to 12:00 noon on Saturday.

During the registration process the student goes through the Sectioning Center where the assignment is made to specific sections of the courses he is to take.

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is

not registered be a basis for asking that a program change be approved permitting registration in that class.

### *NEW STUDENTS*

Students entering the University for the first time are permitted to advance register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

New undergraduate students, freshmen and transfer, will be expected to advance register on the same date that they come to the campus for advisement. Dates for students to do so will be selective ones in which the students are asked to come to the campus on specific dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted nor are they to come to the campus for advisement and registration without an appointment. Appointments for advisement and registration will be mailed from and are to be returned to the Registrar's Office.

New graduate students may advance register during the advance registration period from June 26 through August 25. Arrangements should be cleared with the Graduate School to do so to assure that the appropriate adviser will be available.

Students who desire to advance register for the 1967 fall quarter should be sure to have completed admission procedures by August 11 so as to permit all necessary papers to be furnished to the advisers at the time of advisement. Students admitted after this date will register at the start of the fall quarter along with students admitted earlier who cannot take advantage of the advance registration procedure.

### *RE-ENTERING STUDENTS*

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to advance register during the periods outlined in the Registration Calendar. After completing readmission procedures (Admission Office for undergraduate students and Graduate School for graduate students) advisement appointments should be made at the advisement offices of the academic units into which the students are entering and clearance of the registrations should be completed on that same day at the Sectioning Center.

### *CURRENT STUDENTS, CARBONDALE CAMPUS*

Students currently registered in the University will be continued in their present curricula unless a change of college or major is made. A change of college or major is initiated with the student's adviser. Either change should be made at the time of advisement.

Undergraduate students currently registered in the University will schedule appointments with their adviser. Registrations should be processed through the Sectioning Center as soon after advisement as possible.

Graduate students in a degree program should make

appointments with the departmental adviser for program advisement. Unclassified graduate students preparing for a degree program should contact the departmental adviser for pre-advisement. Unclassified graduate students in other categories may report directly to the Graduate School for registration procedure. Unclassified students who are planning to take qualifying courses must report those courses to the Graduate Admissions office *before* registering each quarter.

### *CURRENT STUDENTS, EDWARDSVILLE CAMPUS*

Undergraduate students attending the Edwardsville Campus who plan to attend the Carbondale Campus must initiate their registration process by presenting to the Admissions Office at Carbondale either an official transcript of their Southern record or a letter of good standing from the registrar at the Edwardsville Campus. The reason for reporting to the Admissions Office is to permit the necessary coding changes to be made so that pertinent information about their academic programs, etc., can be up-dated to reflect the change of campus. Graduate students report first to the Graduate School.

### **PAYMENT OF FEES**

Students receive their fee statements at the time of registration. During the advance registration period students are asked to delay paying their fees in person at the Bursar's Office until the day following registration. This is to permit necessary fee information to reach the Bursar by the time of fee payment. Students will find it easier to simply mail the fee statement along with the proper monetary amount to the Bursar's Office so as to arrive there by the deadline dates which are stated in the Registration Calendar located earlier in this Schedule. If students pay fees in person at the Bursar's Office they receive a Certificate of Registration at that time. When paying by mail they may pick up the Certificate at the Bursar's Office. Later, students will receive their printed schedule of classes at the time and place announced by the Registrar's Office. It is important that these forms be carried by the students at all times.

Students registering at the start of a quarter must pay fees at the time of registration.

Students advance registering may have their fees deferred provided the total amount of fees payable is \$35 or more. This is done through the Financial Assistance Office. Students attempting to do this via mail must do so several days prior to the fee deadline and must include their Fee Statement with the written request for deferment.

### *FEES FOR A REGULAR QUARTER*

The University reserves the right to change fees and to have the change go into effect whenever the proper authorities so determine. Under the current fee schedule, Illinois undergraduate students taking more than 8 hours pay the following regular fees:



Tuition .....	\$42.00
Student Welfare and Recreational Facilities Building Trust Fund Fee .....	15.00
Book Rental .....	8.00
Activity fee .....	10.50
University Center fee .....	5.00
Total .....	<u>\$80.50</u>

Out-of-state students will pay an additional tuition of \$130 if taking more than 8 hours and an additional \$65 if taking 8 hours or fewer.

An Illinois undergraduate taking 8 or fewer hours will pay half tuition and book rental, will have an option of paying the activity fee, and will pay the full University Center fee. Once an option has been made by a student at the time of registration as to whether or not to pay the activity fee, such option is irrevocable. A part-time student, then, will pay either \$30 or \$40.50.

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

In addition to the above, students registering for the first time during the year for AF ROTC will be subject to a \$5 equipment deposit.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status.

## REGISTERING FOR ONLY NIGHT AND/OR SATURDAY CLASSES

Students registering for only night and/or Saturday classes may advance register, during regular office hours, the same as other students. Registration offices are also open one evening during each advance registration period (except for Fall Quarter), the first night of each quarter, and the first Saturday morning of each quarter for the convenience of these students. (Refer to the Registration Calendar on page iii for dates and hours when the offices will be open the one night during advance registration period).

## LATE REGISTRATION

The first day of a quarter is considered the last day of the regular registration period. Registrations thereafter, including those involving "to be arranged," are considered late registrations and are assessed the appropriate late registration fee. This is \$2 the first day with an additional \$1 per day to a maximum of \$5. The only exception is that students taking only night and/or Saturday classes may register on the first Saturday without a late fee.

## AUDITING OF COURSES

Students may register for courses in an "audit" status. They receive no letter grade and no credit for such courses. An auditor's registration must be marked accord-

ngly. They pay the same fees as though they were registering for credit. They are expected to attend regularly and are to determine from the instructor the amount of work expected of them. If auditing students do not attend regularly, the instructor may determine that the students should not have the audited courses placed on their record cards maintained in the Registrar's Office. Students registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter. Such a change will require the student's academic dean's approval.

## PROGRAM CHANGES

Students are officially registered only for those courses appearing on their schedule of classes. Any change therefrom can be made only after fees are paid and must be made through an official program change, which includes the following steps:

1. Initiating the change.

Students report to their advisers for approval and Program Change form completion. Graduate students must also secure approval from the Graduate School. If the change involves only that of changing sections within the same course, this may be done at the Sectioning Center without the necessity of securing adviser approval.

2. Sectioning.

Students must take the program change form to the Sectioning Center within two days after approval by the adviser. If the change involves a program change fee this must be paid at the Bursar's Office and then returned to the Sectioning Center for completion of the process.

Program changes which involve the adding of a new course to the schedule or the changing of sections must be done during the first week of a quarter.

## DROPPING A COURSE

A program change must be made in order to drop a course. A student may not drop merely by stopping attendance. The last date for dropping a course by an undergraduate student without receiving a letter grade is the last day of the fourth week of a quarter. Graduate students may not necessarily receive a grade for dropping after the fourth week. (Refer to Registration Calendar.)

## CHANGING FEE STATUS

Students making program changes which result in their moving from part-time fee status to full-time fee status will be assessed additional tuition and fees. Students moving from full-time fee status to part-time may apply for full refund of the student welfare and recreational facilities building trust fund fee plus a partial refund of their tuition and book rental fee (activity fee is not refundable) provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University

are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendar beginning on page iii.

## WITHDRAWAL FROM SCHOOL

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who advance registers, including paying of fees, and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

## CANCELLATION OF REGISTRATION

An advance registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of Student Affairs.

## PERSONAL DATA CHANGES

At the time of registration students are asked to review a Biographic Data Sketch containing personal data. Certain items, if in error, are corrected at that time. Other items, which may require some type of verifying evidence, are changed by reporting to the Enrollment Section of the Registrar's Office.

1. Address Changes. Should be reported immediately either at the time of registration or at the Registrar's Office.
2. Name Changes. Should be made at the Enrollment Section of the Registrar's Office. Verification is required.
3. Marital Status Changes. Should be made at the Enrollment Center.
4. Legal Residence Changes (whether an Illinois or out-of-state resident). Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.



# Schedule of Classes

## 2

### LISTING OF COURSES

Courses which students are to take to meet the General Studies requirements are listed in the front part of the Schedule of Classes. These courses are listed by the area which they satisfy and within the area by course number and section number.

Departments in which courses are being offered are listed in alphabetical order. Courses within each department are listed in order by course number and section number.

### COURSE NUMBERS AND HOURS

The column containing this information shows the number of the course first, followed by the number of hours of credit. Course numbers are three-digit numbers. In some cases the three digits may be followed by a letter which is also part of the course number.

The number appearing after the dash denotes the hours of credit for the course. In some cases there may be more than one number following the course number such as 599-2 to 5. This represents a variable-hour course in which the student decides the number of hours for which he is going to register in consultation with his adviser.

The course numbering system is as follows:

- 000-099 Course not properly in the following categories
- 100-199 For freshmen
- 200-299 For sophomores
- 300-399 For juniors and seniors
- 400-499 For seniors and graduate students
- 500-600 For graduate students only

### PREREQUISITE

The prerequisite column lists requirements which must be satisfied before a student registers for the course. These prerequisites may be listed in various ways. Usually they are other courses in the same department, indicated by a course number. A prerequisite in another department is indicated by the department's code letters and the number.

The listing of prerequisites provides ready information for students. An effort has been made to have the listing complete, but this is not guaranteed. For the official listing of course descriptions and prerequisites, consult the undergraduate catalog or the graduate catalog.

## SECTION NUMBER, TIME, AND DAYS

The times given indicate the beginning and ending of each class period. Students registering for courses listed as "to be arranged" may obtain times and days from instructor indicated or, if no instructor is listed, from the department chairman offering the course.

The letter *T* preceding a section number indicates that the section has been tentatively scheduled and will be opened for registration only if staff is available.

## BUILDING AND ROOM NUMBER

The following list of building abbreviations will help in the location of classrooms. Buildings are listed alphabetically according to the code used in the class schedule. Temporary buildings are indicated in the schedule by the letter *T* or *H* followed by a number, and religious foundations are indicated by the letter *R* and a number.

CODE:	BUILDING NAME	CODE:	BUILDING NAME
A:	Allyn Building	Office:	Office of the
Abbott:	Abbott Hall (T.P.)		department
Ag:	Agriculture Building	P:	Parkinson Building
Alg:	Altgeld Hall	Pierce:	Pierce Hall (T.P.)
Arena:	SIU Arena	Pool:	University Swimming
Aud:	Shryock Auditorium		Pool
Bailey:	Bailey Hall (T.P.)	Pull:	Pulliam Hall
Bowling Alley (in			(University School)
University Center)		PullII:	Pulliam Hall (Indus-
Brown:	Brown Hall (T.P.)		trial Education Wing)
Browne:	Browne Auditorium	R1:	Baptist Foundation
Cl:	General Classroom	R3:	Christian Foundation
	Building	R4:	Methodist Foundation
Comm:	Communications	R5:	Episcopal Foundation
	Building	R7:	Newman Foundation
EL:	Applied Science	Stables:	Stables at Little
	Laboratories		Grassy Lake
Felts:	Felts Hall (T.P.)	Stad:	McAndrew Stadium
Gym:	Gymnasium	T:	Temporary Building
H:	Temporary Building	Tech:	Technology
HEc:	Home Economics	Tennis:	Tennis Courts
	Building	VTI:	Vocational-Technical
L:	Lawson Hall		Institute (Southern Acres)
Lake:	Lake on the Campus	Warren:	Warren Hall
Lib:	Morris Library		(T.P.)
LG:	Little Grassy Lake	Wh:	Wheeler Hall
LS:	Life Science Building	Wham:	Wham Education
M:	Old Main		Building

If a building contains more than one classroom, then the number of the room follows the building's code name. A building code which contains a number is separated from the room number by the letter *R*. (For example, "T32 R111" means room 111 in building T32.)

## EXPLANATION OF ENTRIES

The entry for each course is arranged as follows:

First Line: The course's identification number is followed by the number of quarter hours of credit and the descriptive title. A dotted line separates the title from the prerequisite, which appears at the right-hand end of the first line and sometimes continues to the second line.

Second Line: Special registration information, explanations, or any other remarks about the course appear on the second line. Sometimes the second line is not used.

Section-Number Lines: The first, second, and third columns list section numbers for courses offered fall, winter, and spring quarters, respectively. Following each section number are the time the class begins and the time it ends. The days on which the class meets, the place where it meets, and the instructor's last name complete the entry.



## 10 GENERAL STUDIES AREA A (GSA)

Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				

# GENERAL STUDIES AREA A— MAN'S PHYSICAL ENVIRONMENT AND BIOLOGICAL INHERITANCE (GSA)

## 101a-4 Energy and Particles I—Physics .....

1		12:00-12:50	MTu	ThF	Browne
2		2:00-2:50	MTu	ThF	Browne
3		4:00-4:50	MTu	ThF	Browne
4		5:00-5:50	MTu	ThF	Browne
5		7:35-9:15 pm	M	W	Browne
6		10:00-10:50	M	WThF	Tech A111
	1	8:00-8:50	M	WThF	L 171
	2	11:00-11:50	M	WThF	L 161
	3	12:00-12:50	MTuWTh		Browne
	4	2:00-2:50	MTuWTh		Browne
	5	4:00-4:50	MTuWTh		Browne
	1	9:00-9:50	M	W FS	Browne
	2	11:00-11:50	Tu	Th	Browne
		10:00-10:50		FS	Browne
	3	12:00-12:50	MTuWTh		Browne
	4	4:00-4:50	MTuWTh		Browne
	5	5:00-5:50	MTuWTh		Browne

## 101b-3 Introduction to Physical Science ..... 101a or equivalent

1		8:00-8:50	M	W F	Browne
2		9:00-9:50	Tu	Th S	Browne
3		1:00-1:50	M	WTh	Browne
4		6:00-7:25 pm	Tu	Th	Browne

## 101b-4 Introduction to Physical Science .....

1		10:00-10:50	M	W FS	Browne
2		3:00-3:50	MTuWTh		Browne
3		5:00-5:50 pm	MTu	ThF	Browne
4		5:45-7:25 pm	M	W	Browne
5		7:35-9:15 pm	M	W	Browne
6		7:35-9:15 pm	Tu	Th	Browne
	1	10:00-10:50	MTuWTh		Browne
	2	2:00-2:50	MTuWTh		Browne
	3	3:00-3:50	MTuWTh		Browne
	4	7:35-9:15 pm	M	W	Browne
	t5	7:35-9:15 pm	Tu	Th	Browne

## Chem 101b-1 Optional Laboratory to Physical Science 101b .....

Concurrent enrollment in GSA 101b

1		8:00-10:50	Tu		P 200
2		8:00-10:50	Tu		P 200
3		12:00-2:50		F	P 200
4		12:00-2:50		F	P 200
5		3:00-5:50		F	P 200
6		3:00-5:50		F	P 200
7		6:00-8:50 pm	M		P 206
8		3:00-5:50	Tu		P 206
t9		1:00-3:50		F	P 206

## 101c-3 Introduction to Physical Science ..... GSA 101b

1		8:00-8:50	Tu	Th S	Browne
2		10:00-10:50	M	W F	Browne
3		7:35-8:50 pm	Tu	Th	Browne
	1	8:00-8:50	Tu	Th S	Browne
	2	1:00-1:50	M	W F	Browne
	3	12:00-12:50		F	Browne
		1:00-1:50	Tu	Th	
	t4	10:00-10:50	Tu	Th S	L 141

## Chem 101c-1 Optional Laboratory for GSA 101c ..... 101b and concurrent enrollment in GSA 101c

1		8:00-10:50		F	P 200
2		8:00-10:50		F	P 200
3		12:00-2:50		F	P 213
4		12:00-2:50		F	P 213
5		6:00-8:50 pm	W		P 206
t6		3:00-5:50		F	P 213
	1	10:00-12:50	Tu		P 213
	2	10:00-12:50	Tu		P 213
	3	6:00-8:50 pm	W		P 213
	4	6:00-8:50 pm		Th	P 213
	5	6:00-8:50 pm		Th	P 213
	t6	6:00-8:50 pm	W		P 213
	t7	2:00-4:50		F	P 206
	t8	6:00-8:50 pm		F	P 206

Course No.	Hours	Descriptive Title	Time		Days		Place		Prerequisite Instructor
Fall	Winter	Spring							
10a-4	Earth and Its Environment								
1	1	1	10:00-10:50	M	W	F	L 171	Harris & Jones	
t2	2	2	11:00-11:50	M	W	F	L 171		
Laboratory on Auto-Tutorial Basis									
10b-4	Earth and Its Environment								
1	1	1	1:00-1:50	MTu	Th		L 171	Harris & Jones	
t2	2	2	2:00-2:50	MTu	Th		L 171		
Laboratory on Auto-Tutorial Basis									
01a-4	Introductory Biology								
1	1	1	8:00-8:50	M	W	F	LS 133	First level of GSA	
			10:00-11:50	M			H27 a		
2	2		8:00-8:50	M	W	F	LS 133		
			12:00-1:50	M			H27 a		
3	3		8:00-8:50	M	W	F	LS 133		
			4:00-5:50	M			H27 a		
4	4	2	8:00-8:50	M	W	F	LS 133		
			8:00-9:50	Tu			H27 a		
		3	8:00-8:50	M	W	F	LS 133		
			12:00-1:50	Tu			H27 a		
		4	8:00-8:50	M	W	F	LS 133		
			4:00-5:50	Tu			H27 a		
5		5	8:00-8:50	M	W	F	LS 133		
			6:00-7:50 pm	Tu			H27 a		
6	5	6	8:00-8:50	M	W	F	LS 133		
			10:00-11:50		W		H27 a		
	6		8:00-8:50	M	W	F	LS 133		
			6:00-7:50 pm		W		H27 a		
7	7	7	8:00-8:50	M	W	F	LS 133		
			8:00-9:50		Th		H27 a		
8	8	8	8:00-8:50	M	W	F	LS 133		
			2:00-3:50		Th		H27 a		
9	9		8:00-8:50	M	W	F	LS 133		
			8:00-9:50			S	H27 a		
		9	8:00-8:50	M	W	F	LS 133		
			6:00-7:50 pm		Th		H27 a		
10	10		8:00-8:50	M	W	F	LS 133		
			10:00-11:50			S	H27 a		
		10	8:00-8:50	M	W	F	LS 133		
			10:00-11:50			F	H27 a		
t11			9:00-9:50	M	W	F	LS 133		
			10:00-11:50	M			H27 c		
t12			9:00-9:50	M	W	F	LS 133		
			12:00-1:50	M			H26 c		
t13			9:00-9:50	M	W	F	LS 133		
			6:00-7:50 pm	M			H27 c		
t14			9:00-9:50	M	W	F	LS 133		
			8:00-9:50	Tu			H27 c		
t15			9:00-9:50	M	W	F	LS 133		
			4:00-5:50	Tu			H27 c		
		11	10:00-10:50	Tu	Th	S	LS 133		
			8:00-9:50	M			H27 a		
		12	10:00-10:50	Tu	Th	S	LS 133		
			10:00-11:50		W		H27c		
		13	10:00-10:50	Tu	Th	S	LS 133		
			2:00-3:50	Tu			H27 a		
		14	10:00-10:50	Tu	Th	S	LS 133		
			8:00-9:50		W		H27 a		
		15	10:00-10:50	Tu	Th	S	LS 133		
			12:00-1:50		W		H27 a		
		16	10:00-10:50	Tu	Th	S	LS 133		
			10:00-11:50			F	H27 c		
		17	10:00-10:50	Tu	Th	S	LS 133		
			12:00-1:50		Th		H27 a		
		18	10:00-10:50	Tu	Th	S	LS 133		
			4:00-5:50		Th		H27 a		
		19	10:00-10:50	Tu	Th	S	LS 133		
			8:00-9:50			F	H27 a		
		20	10:00-10:50	Tu	Th	S	LS 133		
			12:00-1:50			F	H27 a		
t16			9:00-9:50	M	W	F	LS 133		
			10:00-11:50		W		H26 c		
t17			9:00-9:50	M	W	F	LS 133		
			6:00-7:50 pm		Th		H26 c		
t18			9:00-9:50	M	W	F	LS 133		
			10:00-11:50			F	H26 c		

## 12 GENERAL STUDIES AREA A (GSA)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>201a-4 Introductory Biology</b>				<b>First level of GSA</b>			
T19			9:00-9:50	M	W	F	LS 133
			12:00-1:50			F	H27 c
T20			9:00-9:50	M	W	F	LS 133
			10:00-11:50			S	H27 c
21	11		10:00-10:50	M	W	F	LS 133
			8:00-9:50	M			H27 a
22	12		10:00-10:50	M	W	F	LS 133
			6:00-7:50 pm	M			H27 a
23	13		10:00-10:50	M	W	F	LS 133
			10:00-11:50		Tu		H27 a
24			10:00-10:50	M	W	F	LS 133
			12:00-1:50		Tu		H27 a
25	14		10:00-10:50	M	W	F	LS 133
			8:00-9:50		W		H27 a
	15		10:00-10:50	M	W	F	LS 133
			12:00-1:50		W		H27 a
26	16		10:00-10:50	M	W	F	LS 133
			10:00-11:50		Th		H27 a
27	17		10:00-10:50	M	W	F	LS 133
			12:00-1:50		Th		H27 a
28	18		10:00-10:50	M	W	F	LS 133
			4:00-5:50		Th		H27 a
29	19		10:00-10:50	M	W	F	LS 133
			8:00-9:50			F	H27 a
30	20		10:00-10:50	M	W	F	LS 133
			12:00-1:50			F	H27 a
31			12:00-12:50	M	W	F	LS 133
			8:00-9:50	M			H27 c
		21	1:00-1:50	M	W	F	LS 133
			8:00-9:50	M			H27 c
32			12:00-12:50	M	W	F	LS 133
			4:00-5:50	M			H27 c
	21		11:00-11:50		Tu	Th S	LS 133
			8:00-9:50	M			H27 c
	22		11:00-11:50		Tu	Th S	LS 133
			10:00-11:50	M			H27 c
	23		11:00-11:50		Tu	Th S	LS 133
			4:00-5:50	M			H27 c
	24		11:00-11:50		Tu	Th S	LS 133
			8:00-9:50		W		H27 c
	25		11:00-11:50		Tu	Th S	LS 133
			10:00-11:50		W		H27 c
	26		11:00-11:50		Tu	Th S	LS 133
			6:00-7:50 pm		W		H27 c
	27		11:00-11:50		Tu	Th S	LS 133
			12:00-1:50		Th		H27 c
	28		11:00-11:50		Tu	Th S	LS 133
			12:00-1:50			F	H27 c
	29		11:00-11:50		Tu	Th S	LS 133
			10:00-11:50			F	H27 c
	30		11:00-11:50		Tu	Th S	LS 133
			8:00-9:50			S	H27 c
		22	1:00-1:50	M	W	F	LS 133
			10:00-11:50	M			H27 c
33			12:00-12:50	M	W	F	LS 133
			10:00-11:50		Tu		H27 c
		23	1:00-1:50	M	W	F	LS 133
			10:00-11:50		Tu		H27 c
34			12:00-12:50	M	W	F	LS 133
			12:00-1:50		Tu		H27 c
35			12:00-12:50	M	W	F	LS 133
			6:00-7:50 pm		Tu		H27 c
36			12:00-12:50	M	W	F	LS 133
			8:00-9:50		W		H27 c
		24	1:00-1:50	M	W	F	LS 133
			12:00-1:50		Tu		H27 c
		25	1:00-1:50	M	W	F	LS 133
			6:00-7:50 pm		Tu		H27 c
37			12:00-12:50	M	W	F	LS 133
			10:00-11:50		Th		H27 c
		26	1:00-1:50	M	W	F	LS 133
			8:00-9:50		W		H27 c
		27	1:00-1:50	M	W	F	LS 133
			2:00-3:50		W		H27 c
		28	1:00-1:50	M	W	F	LS 133
			10:00-11:50		Th		H27 c



Course	No.—Hours			Descriptive Title				Prerequisite
	Fall	Winter	Spring	Time	Days		Place	Instructor
			29	1:00–1:50	M	W	F	LS 133
				12:00–1:50		Th		H27 c
			30	1:00–1:50	M	W	F	LS 133
				8:00–9:50			F	H27 c
38				12:00–12:50	M	W	F	LS 133
				12:00–1:50		Th		H27 c
39				12:00–12:50	M	W	F	LS 133
				2:00–3:50			F	H27 c
40				12:00–12:50	M	W	F	LS 133
				8:00–9:50			S	H27 c
41				1:00–1:50	M	W	F	LS 133
				10:00–11:50	M			H26 c
42				1:00–1:50	M	W	F	LS 133
				2:00–3:50	M			H27 a
43				1:00–1:50	M	W	F	LS 133
				6:00–7:50 pm	M			H26 c
44				1:00–1:50	M	W	F	LS 133
				12:00–1:50		Tu		H26 c
45				1:00–1:50	M	W	F	LS 133
				2:00–3:50		Tu		H27 a
46				1:00–1:50	M	W	F	LS 133
				8:00–9:50		Th		H27 c
47				1:00–1:50	M	W	F	LS 133
				6:00–7:50 pm		Th		H27 a
48				1:00–1:50	M	W	F	LS 133
				10:00–11:50			F	H27 a
49				1:00–1:50	M	W	F	LS 133
				2:00–3:50			F	H27 a
50				1:00–1:50	M	W	F	LS 133
				10:00–11:50			S	H26 c
	31			3:00–3:50	M	W	F	LS 133
				12:00–1:50	M			H27 c
51				4:00–4:50	M	W	F	LS 133
				12:00–1:50	M			H27 c
52				4:00–4:50	M	W	F	LS 133
				2:00–3:50	M			H26 c
53				4:00–4:50	M	W	F	LS 133
				2:00–3:50		Tu		H26 c
54				4:00–4:50	M	W	F	LS 133
				4:00–5:50		Tu		H26 c
55				4:00–4:50	M	W	F	LS 133
				8:00–9:50		W		H26 c
56				4:00–4:50	M	W	F	LS 133
				2:00–3:50		Th		H27 c
57				4:00–4:50	M	W	F	LS 133
				4:00–5:50		Th		H27 c
58				4:00–4:50	M	W	F	LS 133
				6:00–7:50 pm		Th		H27 c
59				4:00–4:50	M	W	F	LS 133
				8:00–9:50			F	H27 c
60				4:00–4:50	M	W	F	LS 133
				10:00–11:50			F	H27 c
	32			3:00–3:50	M	W	F	LS 133
				6:00–7:50 pm	M			H27 c
	33	31		3:00–3:50	M	W	F	LS 133
				8:00–9:50		Tu		H27 c
		32		3:00–3:50	M	W	F	LS 133
				2:00–3:50		Tu		H27 c
		33		3:00–3:50	M	W	F	LS 133
				4:00–5:50		Tu		H27 c
34	34			3:00–3:50	M	W	F	LS 133
				4:00–5:50		W		H27 a
35	35			3:00–3:50	M	W	F	LS 133
				4:00–5:50		W		H27 c
		36		3:00–3:50	M	W	F	LS 133
				8:00–9:50		Th		H27 c
36	37			3:00–3:50	M	W	F	LS 133
				2:00–3:50		Th		H27 c
37				3:00–3:50	M	W	F	LS 133
				4:00–5:50		Th		H27 c
38	38			3:00–3:50	M	W	F	LS 133
				6:00–7:50 pm		Th		H27 c
39				3:00–3:50	M	W	F	LS 133
				8:00–9:50			F	H27 c
40				3:00–3:50	M	W	F	LS 133
				10:00–11:50			S	H27 c
	39			3:00–3:50	M	W	F	LS 133
				10:00–11:50		Th		H27 a

## 14 GENERAL STUDIES AREA A (GSA)

Course No.—Hours			Descriptive Title			Prerequisite
Fall	Winter	Spring	Time	Days	Place	Instructor

## 201a-4 Introductory Biology ..... First level of GSA

	40	3:00-3:50	M	W	F	LS 133
		12:00-1:50			F	H27 c
	41	6:00-7:25 pm	M	W		LS 133
		10:00-11:50		Tu		H27 c
61	42	6:00-7:25 pm	M	W		LS 133
		2:00-3:50	M			H27 c
	43	6:00-7:25 pm	M	W		LS 133
		2:00-3:50	M			H27 a
62		6:00-7:25 pm	M	W		LS 133
		10:00-11:50		Tu		H26 c
63		6:00-7:25 pm	M	W		LS 133
		2:00-3:50		W		H27 c
64		6:00-7:25 pm	M	W		LS 133
		6:00-7:50 pm		Tu		H26 c
65		6:00-7:25 pm	M	W		LS 133
		10:00-11:50		W		H27 c
	44	6:00-7:50 pm	M	W		LS 133
		10:00-11:50		Th		H27 c
	45	6:00-7:25 pm	M	W		LS 133
		12:00-1:50		W		H27 c
	46	6:00-7:25 pm	M	W		LS 133
		2:00-3:50		W		H27 a
	47	6:00-7:25 pm	M	W		LS 133
		2:00-3:50		W		H27 c
	48	6:00-7:25 pm	M	W		LS 133
		8:00-9:50		Th		H27 c
	49	6:00-7:25 pm	M	W		LS 133
		6:00-7:50 pm		Th		H27 a
	50	6:00-7:25 pm	M	W		LS 133
		10:00-11:50			F	H27 a
66		6:00-7:25 pm	M	W		LS 133
		10:00-11:50		Th		H26 c
67		6:00-7:25 pm	M	W		LS 133
		2:00-3:50		Th		H26 c
68		6:00-7:25 pm	M	W		LS 133
		4:00-5:50		Th		H26 c
69		6:00-7:25 pm	M	W		LS 133
		12:00-1:50			F	H26 c
70		6:00-7:25 pm	M	W		L 133
		2:00-3:50			F	H26 c
r71		10:00-10:50		Tu	Th S	LS 133
		8:00-9:50	M			H26 c
r72		10:00-10:50		Tu	Th S	LS 133
		2:00-3:50		Tu		H26 c
r73		10:00-10:50		Tu	Th S	LS 133
		8:00-9:50		Tu		H26 c
r74		10:00-10:50		Tu	Th S	LS 133
		4:00-5:50		Tu		H27 a
r75		10:00-10:50		Tu	Th S	LS 133
		6:00-7:50 pm		W		H27 a
r76		10:00-10:50		Tu	Th S	LS 133
		6:00-7:50 pm		W		H27 c
r77		10:00-10:50		Tu	Th S	LS 133
		6:00-7:50 pm		W		H26 c
r78		10:00-10:50		Tu	Th S	LS 133
		12:00-1:50		Th		H26 c
r79		10:00-10:50		Tu	Th S	LS 133
		8:00-9:50			F	H26 c
r80		10:00-10:50		Tu	Th S	LS 133
		8:00-9:50			S	H26 c

## 201b-4 Introductory Biology ..... GSA 201a

1	1	9:00-9:50		Tu	Th	LS 133
		10:00-11:50	M		Th	H26 a
2	2	9:00-9:50		Tu	Th	LS 133
		12:00-1:50	M		Th	H26 a
3	3	9:00-9:50		Tu	Th	LS 133
		2:00-3:50	M		Th	H26 a
4	4	9:00-9:50		Tu	Th	LS 133
		4:00-5:50	M		Th	H26 a
5	5	9:00-9:50		Tu	Th	LS 133
		10:00-11:50		Tu	F	H26 a
6	6	9:00-9:50		Tu	Th	LS 133
		12:00-1:50		Tu	F	H26 a
7	7	9:00-9:50		Tu	Th	LS 133
		2:00-3:50		Tu	F	H26 a
8	8	9:00-9:50		Tu	Th	LS 133
		6:00-7:50 pm		Tu	Th	H26 a

Course No.	Hours		Descriptive Title	Days		Place	Prerequisite Instructor
	Fall	Winter Spring					
9		9	9:00-9:50	Tu	Th	LS 133	
			8:00-9:50	W	F	H26 a	
10		10	9:00-9:50	Tu	Th	LS 133	
			10:00-11:50	W	S	H26 a	
	1		8:00-8:50	Tu	Th	LS 133	
			10:00-11:50	M	Th	H26 a	
	2		8:00-8:50	Tu	Th	LS 133	
			12:00-1:50	M	Th	H26 a	
	3		8:00-8:50	Tu	Th	LS 133	
			2:00-3:50	M	Th	H26 a	
	4		8:00-8:50	Tu	Th	LS 133	
			4:00-5:50	M	Th	H26 a	
	5		8:00-8:50	Tu	Th	LS 133	
			10:00-11:50	Tu	F	H26 a	
	6		8:00-8:50	Tu	Th	LS 133	
			12:00-1:50	Tu	F	H26 a	
	7		8:00-8:50	Tu	Th	LS 133	
			2:00-3:50	Tu	F	H26 a	
	8		8:00-8:50	Tu	Th	LS 133	
			6:00-7:50 pm	Tu	Th	H26 a	
	9		8:00-8:50	Tu	Th	LS 133	
			8:00-9:50	W	F	H26 a	
	10		8:00-8:50	Tu	Th	LS 133	
			10:00-11:50	W	S	H26 a	
t11			12:00-12:50	Tu	Th	LS 133	
			8:00-9:50	M	Th	LS 308	
t12			12:00-12:50	Tu	Th	LS 133	
			10:00-11:50	M	Th	LS 308	
t13			12:00-12:50	Tu	Th	LS 133	
			2:00-3:50	M	Th	LS 308	
t14			12:00-12:50	Tu	Th	LS 133	
			4:00-5:50	M	Th	LS 308	
t15			12:00-12:50	Tu	Th	LS 133	
			8:00-9:50	Tu	F	LS 308	
t16			12:00-12:50	Tu	Th	LS 133	
			10:00-11:50	Tu	S	LS 308	
t17			12:00-12:50	Tu	Th	LS 133	
			2:00-3:50	Tu	F	LS 308	
t18			12:00-12:50	Tu	Th	LS 133	
			6:00-7:50 pm	Tu	Th	LS 308	
t19			12:00-12:50	Tu	Th	LS 133	
			8:00-9:50	W	S	LS 308	
t20			12:00-12:50	Tu	Th	LS 133	
			10:00-11:50	W	F	LS 308	
	11		10:00-10:50	Tu	Th	LS 133	
			8:00-9:50	M	Th	H26 c	
	12		10:00-10:50	Tu	Th	LS 133	
			12:00-1:50	M	Th	H26 c	
	13		10:00-10:50	Tu	Th	LS 133	
			2:00-3:50	M	Th	H26 c	
	14		10:00-10:50	Tu	Th	LS 133	
			4:00-5:50	M	Th	H26 c	
	15		10:00-10:50	Tu	Th	LS 133	
			8:00-9:50	Tu	F	H26 c	
	16		10:00-10:50	Tu	Th	LS 133	
			12:00-1:50	Tu	F	H26 c	
	17		10:00-10:50	Tu	Th	LS 133	
			2:00-3:50	Tu	F	H26 c	
	18		10:00-10:50	Tu	Th	LS 133	
			6:00-7:50 pm	Tu	Th	H26 c	
	19		10:00-10:50	Tu	Th	LS 133	
			8:00-9:50	W	S	H26 c	
	20		10:00-10:50	Tu	Th	LS 133	
			10:00-11:50	W	F	H26 c	
	11		11:00-11:50	Tu	Th	LS 133	
			8:00-9:50	M	Th	H26 c	
	12		11:00-11:50	Tu	Th	LS 133	
			12:00-1:50	M	Th	H26 c	
	13		11:00-11:50	Tu	Th	LS 133	
			2:00-3:50	M	Th	H26 c	
	14		11:00-11:50	Tu	Th	LS 133	
			4:00-5:50	M	Th	H26 c	
	15		11:00-11:50	Tu	Th	LS 133	
			8:00-9:50	Tu	F	H26 c	
	16		11:00-11:50	Tu	Th	LS 133	
			12:00-1:50	Tu	F	H26 c	
	17		11:00-11:50	Tu	Th	LS 133	
			2:00-3:50	Tu	F	H26 c	



## 16 GENERAL STUDIES AREA A (GSA)

Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor
Fall	Winter		Spring	Time		
201b-4	Introductory	Biology				GSA 201
	18	11:00-11:50	Tu	Th	LS 133	
		6:00-7:50 pm	Tu	Th	H26 c	
	19	11:00-11:50	Tu	Th	LS 133	
		8:00-9:50	W	S	H26 c	
	20	11:00-11:50	Tu	Th	LS 133	
		10:00-11:50	W	F	H26 c	
	21	11:00-11:50	M	W	LS 133	
		8:00-9:50	M	Th	LS 308	
	22	11:00-11:50	M	W	LS 133	
		8:00-9:50	M	Th	LS 132	
	23	11:00-11:50	M	W	LS 133	
		2:00-3:50	M	Th	LS 308	
	24	11:00-11:50	M	W	LS 133	
		4:00-5:50	M	Th	LS 308	
	25	11:00-11:50	M	W	LS 133	
		8:00-9:50	Tu	F	LS 308	
	26	11:00-11:50	M	W	LS 133	
		10:00-11:50	Tu	F	LS 308	
	27	11:00-11:50	M	W	LS 133	
		2:00-3:50	Tu	F	LS 308	
	28	11:00-11:50	M	W	LS 133	
		6:00-7:50 pm	Tu	Th	LS 308	
	29	11:00-11:50	M	W	LS 133	
		8:00-9:50	W	S	LS 308	
	30	11:00-11:50	M	W	LS 133	
		8:00-9:50	W	F	LS 132	
	21	1:00-1:50	Tu	Th	LS 133	
		8:00-9:50	M	Th	LS 308	
	22	1:00-1:50	Tu	Th	LS 133	
		10:00-11:50	M	Th	LS 308	
	23	1:00-1:50	Tu	Th	LS 133	
		2:00-3:50	M	Th	LS 308	
	24	1:00-1:50	Tu	Th	LS 133	
		4:00-5:50	M	Th	LS 308	
	25	1:00-1:50	Tu	Th	LS 133	
		8:00-9:50	Tu	F	LS 308	
	26	1:00-1:50	Tu	Th	LS 133	
		8:00-9:50	M	Th	LS 132	
	27	1:00-1:50	Tu	Th	LS 133	
		2:00-3:50	Tu	F	LS 308	
	28	1:00-1:50	Tu	Th	LS 133	
		6:00-7:50 pm	Tu	Th	LS 308	
	29	1:00-1:50	Tu	Th	LS 133	
		8:00-9:50	W	S	LS 308	
	30	1:00-1:50	Tu	Th	LS 133	
		10:00-11:50	W	S	LS 308	
	31	5:45-7:25 pm	Tu		LS 133	
		10:00-11:50	M	Th	H26 c	
32	5:45-7:25 pm	Tu		LS 133		
	10:00-11:50	M	Th	LS 132		
33	5:45-7:25 pm	Tu		LS 133		
	12:00-1:50	M	Th	LS 132		
34	5:45-7:25 pm	Tu		LS 133		
	2:00-3:50	M	Th	LS 132		
35	5:45-7:25 pm	Tu		LS 133		
	4:00-5:50	M	Th	LS 132		
36	5:45-7:25 pm	Tu		LS 133		
	6:00-7:50 pm	M	W	LS 132		
37	5:45-7:25 pm	Tu		LS 133		
	10:00-11:50	Tu	F	LS 132		
38	5:45-7:25 pm	Tu		LS 133		
	12:00-1:50	Tu	F	LS 132		
39	5:45-7:25 pm	Tu		LS 133		
	2:00-3:50	Tu	F	LS 132		
40	5:45-7:25 pm	Tu		LS 133		
	10:00-11:50	W	S	LS 308		
31	5:45-7:25 pm		Th	LS 133		
	10:00-11:50	M	Th	H26 c		
32	5:45-7:25 pm		Th	LS 133		
	10:00-11:50	M	Th	LS 132		
33	5:45-7:25 pm		Th	LS 133		
	12:00-1:50	M	Th	LS 132		
34	5:45-7:25 pm		Th	LS 133		
	2:00-3:50	M	Th	LS 132		
35	5:45-7:25 pm		Th	LS 133		
	4:00-5:50	M	Th	LS 132		

Course No.	Hours			Descriptive Title			Prerequisite
	Fall	Winter	Spring	Time	Days	Place	Instructor
				36	5:45-7:25 pm	Th	LS 133
					6:00-7:50 pm	M W	LS 132
				37	5:45-7:25 pm	Th	LS 133
					10:00-11:50	Tu F	LS 132
				38	5:45-7:25 pm	Th	LS 133
					12:00-1:50	Tu F	LS 132
				39	5:45-7:25 pm	Th	LS 133
					2:00-3:50	Tu F	LS 132
				40	5:45-7:25 pm	Th	LS 133
					8:00-9:50	W F	LS 132
				41	3:00-3:50	Tu Th	LS 133
					8:00-9:50	M Th	H26 a
				42	3:00-3:50	Tu Th	LS 133
					10:00-11:50	M Th	LS 308
				43	3:00-3:50	Tu Th	LS 133
					12:00-1:50	M Th	LS 308
				44	3:00-3:50	Tu Th	LS 133
					6:00-7:50 pm	M W	LS 308
				45	3:00-3:50	Tu Th	LS 133
					8:00-9:50	Tu S	H26 a
				46	3:00-3:50	Tu Th	LS 133
					8:00-9:50	Tu S	LS 132
				47	3:00-3:50	Tu Th	LS 133
					10:00-11:50	Tu S	H26 c
				48	3:00-3:50	Tu Th	LS 133
					12:00-1:50	Tu F	LS 308
				49	3:00-3:50	Tu Th	LS 133
					6:00-7:50 pm	Tu Th	LS 132
				50	3:00-3:50	Tu Th	LS 133
					10:00-11:50	W S	LS 132
				41	9:00-9:50	W F	LS 133
					8:00-9:50	M Th	H26 a
				42	9:00-9:50	W F	LS 133
					8:00-9:50	M Th	LS 132
				43	9:00-9:50	W F	LS 133
					12:00-1:50	M Th	LS 308
				44	9:00-9:50	W F	LS 133
					6:00-7:50 pm	M W	LS 308
				45	9:00-9:50	W F	LS 133
					8:00-9:50	Tu S	H26 a
				46	9:00-9:50	W F	LS 133
					8:00-9:50	Tu S	LS 132
				47	9:00-9:50	W F	LS 133
					10:00-11:50	Tu S	H26 c
				48	9:00-9:50	W F	LS 133
					12:00-1:50	Tu F	LS 308
				49	9:00-9:50	W F	LS 133
					6:00-7:50 pm	Tu Th	LS 132
				50	9:00-9:50	W F	LS 133
					10:00-11:50	W S	LS 132
<b>301-4 Principles of Physiology</b>							
1	1	1	1:00-1:50	M W F	Tech A111		
			2:00-3:50	M	LS 113		
2	2	2	1:00-1:50	M W F	Tech A111		
			1:00-2:50	Tu	LS 113		
3	3	3	1:00-1:50	M W F	Tech A111		
			9:00-10:50	W	LS 113		
4	4	4	1:00-1:50	M W F	Tech A111		
			2:00-3:50	W	LS 113		
5	5	5	1:00-1:50	M W F	Tech A111		
			1:00-2:50	Th	LS 113		
6	6	6	1:00-1:50	M W F	Tech A111		
			9:00-10:50	F	LS 113		
7	7	7	1:00-1:50	M W F	Tech A111		
			5:45-7:25 pm	Tu	LS 113		
8	8	8	1:00-1:50	M W F	Tech A111		
			5:45-7:25 pm	Th	LS 113		
<b>302-3 Psychophysiological Foundations of Behavior</b>							
1		1	11:00-11:50	Tu Th	Wham 205	Miller and Lit	
			1:00-2:50	Th	LS 120	Miller	
2		2	11:00-11:50	Tu Th	Wham 205	Miller and Lit	
			8:00-9:50	S	LS 113	Miller	
<b>T303-3 Ferns, Wild Flowers, and Trees</b>							
		1	1:00-1:50	W	LS 323	Mohlenbrock	
			1:00-2:50	M F	LS 307	Marberry	

## 18 GENERAL STUDIES AREA A (GSA)

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
<b>T303-3 Ferns, Wild Flowers, and Trees</b> .....					
	2	1:00-1:50	W	LS 323	Mohlenbrock
		8:00-9:50	M F	LS 307	
<b>312-3 Conservation of Natural Resources</b> .....					
1		10:00-10:50	Tu Th S	L 141	Klimstra
	1	9:00-9:50	Tu Th	L 151	Klimstra
		9:00-9:50	F	L 161	
	2	10:00-10:50	Tu Th S	L 151	
	1	10:00-10:50	M W F	L 161	Klimstra
<b>313-3 Evolution</b> .....					
1		11:00-11:50	M W F	LS 133	
	1	2:00-2:50	M W F	LS 133	Stains
	1	2:00-2:50	M W	L 141	Stains
		2:00-2:50	Th	L 161	
<b>314-3 Man's Genetic Heritage</b> .....					
1		12:00-12:50	M W F	L 161	Englert
<b>315-3 History of Biology</b> .....					
1		2:00-2:50	M W F	L 141	Galbreath
	1	12:00-12:50	M W F	L 141	Galbreath
<b>321-3 Introduction to Paleontology</b> .....					
1	1	1	2:00-2:50	W F	Ag 166
			8:00-9:50	M	Ag 170
2	2	2	2:00-2:50	W F	Ag 166
			10:00-11:50	M	Ag 170
3	3	3	2:00-2:50	W F	Ag 166
			1:00-2:50	M	Ag 170
4	4	4	2:00-2:50	W F	Ag 166
			3:00-4:50	M	Ag 170
t5	t5	t5	2:00-2:50	W F	Ag 166
			6:00-7:25 pm	M	Ag 170
<b>322-3 Introduction to Rocks and Minerals</b> .....					
1	1	1	9:00-9:50	M W	Ag 168
			8:00-9:50	Th	Ag 174
2	2	2	9:00-9:50	M W	Ag 168
			10:00-11:50	Th	Ag 174
3	3	3	3:00-3:50	Tu Th	Ag 168
			12:00-1:50	Th	Ag 174
4	4	4	3:00-3:50	Tu Th	Ag 168
			4:00-5:50	Th	Ag 174
	t5	t5	6:00-6:50 pm	M W	Ag 168
			1:00-1:50	Tu	Ag 174
	t6	t6	6:00-6:50 pm	M W	Ag 168
			2:00-3:50	Tu	Ag 174
<b>330-3 Weather</b> .....					
1			11:00-11:50	M W	L 151
			8:00-8:50	Th	Ag 158
	t1		2:00-2:50	M W	L 141
			8:00-8:50	Th	Ag 158
		1	11:00-11:50	MTu	L 151
			8:00-8:50	Th	Ag 158
2			11:00-11:50	M W	L 151
			9:00-9:50	Th	Ag 158
	t2		2:00-2:50	M W	L 141
			9:00-9:50	Th	Ag 158
		2	11:00-11:50	MTu	L 151
			9:00-9:50	Th	Ag 158
3			11:00-11:50	M W	L 151
			10:00-10:50	Th	Ag 158
	t3		2:00-2:50	M W	L 141
			10:00-10:50	Th	Ag 158
		3	11:00-11:50	MTu	L 151
			10:00-10:50	Th	Ag 158
4			11:00-11:50	M W	L 151
			1:00-1:50	Th	Ag 158
	t4		2:00-2:50	M W	L 141
			1:00-1:50	Th	Ag 158
		4	11:00-11:50	MTu	L 151
			1:00-1:50	Th	Ag 158
5			11:00-11:50	M W	L 151
			2:00-2:50	Th	Ag 158
	t5		2:00-2:50	M W	L 141
			2:00-2:50	Th	Ag 158
		5	11:00-11:50	MTu	L 151
			2:00-2:50	Th	Ag 158
6			11:00-11:50	M W	L 151
			3:00-3:50	Th	Ag 158
	t6		2:00-2:50	M W	L 141
			3:00-3:50	Th	Ag 158



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite
Fall	Winter	Spring	Time				Instructor
		6	11:00-11:50	MTu		L 151	
			3:00-3:50		Th	Ag 158	
7			11:00-11:50	M	W	L 151	
			8:00-8:50		Th	Ag 144	
	T7		2:00-2:50	M	W	L 141	Jones
			8:00-8:50		Th	Ag 144	
		7	11:00-11:50	MTu		L 151	
			8:00-8:50		Th	Ag 144	
8			11:00-11:50	M	W	L 151	
			9:00-9:50		Th	Ag 144	
	T8		2:00-2:50	M	W	L 141	
			9:00-9:50		Th	Ag 144	
		8	11:00-11:50	MTu		L 151	
			9:00-9:50		Th	Ag 144	
9			11:00-11:50	M	W	L 151	
			10:00-10:50		Th	Ag 144	
	T9		2:00-2:50	M	W	L 141	
			10:00-10:50		Th	Ag 144	
		9	11:00-11:50	MTu		L 151	
			10:00-10:50		Th	Ag 144	
10			11:00-11:50	M	W	L 151	
			1:00-1:50		Th	Ag 144	
	T10		2:00-2:50	M	W	L 141	
			1:00-1:50		Th	Ag 144	
		10	11:00-11:50	MTu		L 151	Jones
			11:00-11:50		Th	Ag 144	
11			11:00-11:50	M	W	L 151	
			2:00-2:50		Th	Ag 144	
	T11		2:00-2:50	M	W	L 141	
			2:00-2:50		Th	Ag 144	
		11	11:00-11:50	MTu		L 151	
			12:00-12:50		Th	Ag 144	
12			11:00-11:50	M	W	L 151	
			3:00-3:50		Th	Ag 144	
	T12		2:00-2:50	M	W	L 141	
			3:00-3:50		Th	Ag 144	
		12	11:00-11:50	MTu		L 151	
			1:00-1:50		Th	Ag 144	
331-3	Climate						
1			3:00-3:50	M	W	F	L 151
	1		11:00-11:50	MTu	Th		L 151
		1	4:00-4:50	M	W	F	L 151
340-3	Ecology						
1	1	1	12:00-12:50	MTu	Th		LS 323
345-3	Economic Botany						
1	1	1	8:00-8:50	M	W	F	L 101 Welch
2	2	2	9:00-9:50	M	W	F	L 101 Welch
3	3	3	3:00-3:50	M	W	F	L 101 Welch
4	4	4	4:00-4:50	M	W	F	L 101 Welch
358a-3	Analysis of Physical Systems						
1	1	1	1:00-1:50	Tu	Th		Tech D131
			5:00-7:50 pm		Th		Tech D12
2	2	2	1:00-1:50	Tu	Th		Tech D131
			6:00-7:50 pm	Tu			Tech D12
3	3	3	1:00-1:50	Tu	Th		Tech D131
			9:00-10:50		S		Tech D12
358b-3	Analysis of Physical Systems						
1	1	1	8:00-8:50	Tu	Th		Tech D131
			6:00-7:50 pm	M			Tech D102
2	2	2	8:00-8:50	Tu	Th		Tech D131
			6:00-7:50 pm		W		Tech D102
	3	3	8:00-8:50	Tu	Th		Tech D131
			6:00-7:50 pm	Tu			Tech D102
361-3	Acoustics of Music						
1			10:00-10:50	Tu	W	F	Alg 116 Gordon

# GENERAL STUDIES AREA B—MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)

101b-4	Survey of Western Tradition						
1			8:00-8:50	M	W	F	L 151
			11:00-11:50	M			M 303
	1		8:00-8:50	M	W	F	L 151
			10:00-10:50	M			M 102
		1	9:00-9:50	Tu	Th		L 151
			9:00-9:50			F	L 161
			9:00-9:50	M			M 102

## 20 GENERAL STUDIES AREA B (GSB)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
101b-4 Survey of Western Tradition							
2			8:00-8:50	M	W	F	L 151
			1:00-1:50	M			M 206
	2		8:00-8:50	M	W	F	L 151
			1:00-1:50	M			M 102
		2	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			11:00-11:50	M			M 102
3			8:00-8:50	M	W	F	L 151
			10:00-10:50		Tu		M 102
	3		8:00-8:50	M	W	F	L 151
			3:00-3:50	M			M 207
		3	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			1:00-1:50	M			M 206
4			8:00-8:50	M	W	F	L 151
			12:00-12:50		Tu		M 207
	4		8:00-8:50	M	W	F	L 151
			6:00-6:50 pm	M			M 102
		4	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			3:00-3:50	M			M 207
5			8:00-8:50	M	W	F	L 151
			2:00-2:50		Tu		M 207
	5		8:00-8:50	M	W	F	L 151
			7:35-8:25 pm	M			M 102
		5	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			12:00-12:50		Tu		M 203
6			8:00-8:50	M	W	F	L 151
			3:00-3:50		Tu		M 206
	6		8:00-8:50	M	W	F	L 151
			8:00-8:50		Tu		M 206
		6	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			2:00-2:50		Tu		M 207
7			8:00-8:50	M	W	F	L 151
			10:00-10:50			F	M 102
	7		8:00-8:50	M	W	F	L 151
			10:00-10:50		Tu		M 207
		7	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			3:00-3:50		Tu		M 207
8			8:00-8:50	M	W	F	L 151
			11:00-11:50			F	M 102
	8		8:00-8:50	M	W	F	L 151
			11:00-11:50			F	M 102
		8	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			8:00-8:50		W		M 207
9			8:00-8:50	M	W	F	L 151
			1:00-1:50			F	M 206
	9		8:00-8:50	M	W	F	L 151
			1:00-1:50			F	M 207
		9	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			10:00-10:50		W		M 102
10			8:00-8:50	M	W	F	L 151
			3:00-3:50			F	M 207
	10		8:00-8:50	M	W	F	L 151
			2:00-2:50			F	M 206
		10	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			12:00-12:50		W		M 206
11			8:00-8:50	M	W	F	L 151
			8:00-8:50		Tu		HEc 104
	11		8:00-8:50	M	W	F	L 151
			9:00-9:50			F	Wham 228
		11	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			2:00-2:50		W		M 206
12			8:00-8:50	M	W	F	L 151
			9:00-9:50		Th		M 206
	12		8:00-8:50	M	W	F	L 151
			10:00-10:50		W		M 203
		12	9:00-9:50		Tu	Th	L 151
			9:00-9:50			F	L 161
			11:00-11:50		W		M 203

Course No.	Hours		Descriptive Title	Time	Days			Place	Prerequisite Instructor
	Fall	Winter			Spring				
13			9:00-9:50		Tu	Th		L 151	
			9:00-9:50				F	L 161	
			9:00-9:50		M			M 209	
13			1:00-1:50		M	W	F	L 151	
			4:00-4:50		M			M 207	
		13	1:00-1:50		M	W	F	L 151	
14			8:00-8:50		Tu			M 206	
			9:00-9:50		Tu	Th		L 151	
			9:00-9:50				F	L 161	
14			2:00-2:50		M			M 102	
			1:00-1:50		M	W	F	L 151	
			6:00-6:50 pm		M			M 207	
14			1:00-1:50		M	W	F	L 151	
			10:00-10:50		Tu			M 102	
			9:00-9:50		Tu	Th		L 151	
15			9:00-9:50				F	L 161	
			1:00-1:50		Tu			M 206	
		15	1:00-1:50		M	W	F	L 151	
15			9:00-9:50		Tu			M 102	
			1:00-1:50		M	W	F	L 151	
			1:00-1:50		Tu			M 206	
16			9:00-9:50		Tu	Th		L 151	
			9:00-9:50				F	L 161	
			3:00-3:50		Tu			M 207	
16			1:00-1:50		M	W	F	L 151	
			12:00-12:50		Tu			M 102	
		16	1:00-1:50		M	W	F	L 151	
16			2:00-2:50		Tu			M 102	
			9:00-9:50		Tu	Th		L 151	
			9:00-9:50				F	L 161	
17			4:00-4:50		Tu			M 102a	
			1:00-1:50		M	W	F	L 151	
			1:00-1:50		Tu			M 102	
17			1:00-1:50		M	W	F	L 151	
			9:00-9:50			W		M 102	
			9:00-9:50		Tu	Th		L 151	
18			9:00-9:50				F	L 161	
			6:00-6:50 pm		Tu			M 206	
		18	1:00-1:50		M	W	F	L 151	
18			3:00-3:50		Tu			M 207	
			1:00-1:50		M	W	F	L 151	
			11:00-11:50			W		M 206	
19			9:00-9:50		Tu	Th		L 151	
			9:00-9:50				F	L 161	
			12:00-12:50			Th		M 207	
19			1:00-1:50		M	W	F	L 151	
			8:00-8:50			Th		M 206	
		19	1:00-1:50		M	W	F	L 151	
19			2:00-2:50			W		M 102	
			9:00-9:50		Tu	Th		L 151	
			9:00-9:50				F	L 161	
20			2:00-2:50			Th		M 207	
			1:00-1:50		M	W	F	L 151	
			10:00-10:50			Th		M 207	
20			1:00-1:50		M	W	F	L 151	
			4:00-4:50			W		M 207	
			9:00-9:50		Tu	Th		L 151	
21			9:00-9:50				F	L 161	
			3:00-3:50			Th		M 206	
		21	1:00-1:50		M	W	F	L 151	
21			1:00-1:50			Th		M 102	
			1:00-1:50		M	W	F	L 151	
		21	8:00-8:50			Th		M 206	
22			9:00-9:50		Tu	Th		L 151	
			9:00-9:50				F	L 161	
			4:00-4:50			Th		M 102a	
22			1:00-1:50		M	W	F	L 151	
			6:00-6:50 pm			Th		M 206	
		22	1:00-1:50		M	W	F	L 151	
22			10:00-10:50			Th		M 207	
			9:00-9:50		Tu	Th		L 151	
			9:00-9:50				F	L 161	
23			10:00-10:50			W		M 206	
			1:00-1:50		M	W	F	L 151	
			8:00-8:50				F	M 206	
23			1:00-1:50		M	W	F	L 151	
			12:00-12:50			Th		M 207	



## 22 GENERAL STUDIES AREA B (GSB)

Course No.	Hours			Descriptive Title	Days			Place	Prerequisite Instructor
	Fall	Winter	Spring		Time				
101b-4	Survey of Western Tradition								
24				9:00-9:50	Tu	Th		L 151	
				9:00-9:50			F	L 161	
				11:00-11:50	Tu			HEc 120	
	24			1:00-1:50	M	W	F	L 151	
				11:00-11:50			F	Wham 210	
		24		1:00-1:50	M	W	F	L 151	
				2:00-2:50		Th		M 207	
25				1:00-1:50	M	W	F	L 151	
				4:00-4:50	M			M 102	
26				1:00-1:50	M	W	F	L 151	
				6:00-6:50 pm	M			M 206	
27				1:00-1:50	M	W	F	L 151	
				8:00-8:50	Tu			M 206	
28				1:00-1:50	M	W	F	L 151	
				9:00-9:50	Tu			M 102	
29				1:00-1:50	M	W	F	L 151	
				1:00-1:50	Tu			M 209	
30				1:00-1:50	M	W	F	L 151	
				8:00-8:50		Th		M 206	
31				1:00-1:50	M	W	F	L 151	
				10:00-10:50		Th		M 207	
32				1:00-1:50	M	W	F	L 151	
				1:00-1:50		Th		M 206	
33				1:00-1:50	M	W	F	L 151	
				3:00-3:50		Th		M 207	
34				1:00-1:50	M	W	F	L 151	
				8:00-8:50			F	M 207	
35				1:00-1:50	M	W	F	L 151	
				11:00-11:50			F	M 207	
36				1:00-1:50	M	W	F	L 151	
				4:00-4:50			F	M 207	
37				4:00-4:50	M	W	F	L 151	
				6:00-6:50 pm	M			M 207	
38				4:00-4:50	M	W	F	L 151	
				7:35-8:25 pm	M			M 207	
39				4:00-4:50	M	W	F	L 151	
				8:00-8:50		W		M 207	
40				4:00-4:50	M	W	F	L 151	
				9:00-9:50		W		M 201	
41				4:00-4:50	M	W	F	L 151	
				11:00-11:50		W		M 207	
42				4:00-4:50	M	W	F	L 151	
				1:00-1:50		W		M 206	
43				4:00-4:50	M	W	F	L 151	
				6:00-6:50 pm		W		M 206	
44				4:00-4:50	M	W	F	L 151	
				7:35-8:25 pm		W		M 207	
45				4:00-4:50	M	W	F	L 151	
				8:00-8:50			F	P 301	
46				4:00-4:50	M	W	F	L 151	
				2:00-2:50			F	M 206	
47				4:00-4:50	M	W	F	L 151	
				9:00-9:50		Th		M 215	
48				4:00-4:50	M	W	F	L 151	
				10:00-10:50	Tu			M 207	
49				6:00-7:25 pm	M	W		L 151	
				6:00-6:50 pm	Tu			M 102	
50				6:00-7:25 pm	M	W		L 151	
				7:35-8:25 pm	Tu			M 206	
51				6:00-7:25 pm	M	W		L 151	
				8:00-8:50		W		M 102	
52				6:00-7:25 pm	M	W		L 151	
				10:00-10:50		W		M 102	
53				6:00-7:25 pm	M	W		L 151	
				12:00-12:50		W		M 206	
54				6:00-7:25 pm	M	W		L 151	
				2:00-2:50		W		M 206	
55				6:00-7:25 pm	M	W		L 151	
				1:00-1:50		Th		M 308	
56				6:00-7:25 pm	M	W		L 151	
				6:00-6:50 pm		Th		M 206	
57				6:00-7:25 pm	M	W		L 151	
				7:35-8:25 pm		Th		M 206	
58				6:00-7:25 pm	M	W		L 151	
				8:00-8:50		Th		M 201	

Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time			
59			6:00–7:25 pm	M W	L 151	
			9:00–9:50	Tu	HEc 303	
60			6:00–7:25 pm	M W	L 151	
			11:00–11:50	W	M 102	
61			12:00–12:50	M W F	L 141	
			7:35–8:25 pm	Tu	M 207	
62			12:00–12:50	M W F	L 141	
			11:00–11:50	W	M 206	
63			12:00–12:50	M W F	L 141	
			2:00–2:50	W	M 207	
64			12:00–12:50	M W F	L 141	
			4:00–4:50	W	M 102	
65			12:00–12:50	M W F	L 141	
			6:00–6:50 pm	W	M 207	
66			12:00–12:50	M W F	L 141	
			6:00–6:50 pm	Th	M 102	
67			12:00–12:50	M W F	L 141	
			7:35–8:25 pm	Th	M 207	
68			12:00–12:50	M W F	L 141	
			2:00–2:50	F	M 207	
<b>01c-4 Survey of Western Tradition</b>						
1			1:00–1:50	Tu ThF	L 141	
			8:00–8:50	M	M 207	
	1		8:00–8:50	Tu Th	L 151	
			8:00–8:50	W	L 141	
			9:00–9:50	M	M 207	
	1		8:00–8:50	Tu Th	L 151	
			8:00–8:50	F	L 171	
			2:00–2:50	M	M 207	
2			1:00–1:50	Tu ThF	L 141	
			10:00–10:50	S	M 102	
	2		8:00–8:50	Tu Th	L 151	
			8:00–8:50	W	L 141	
			1:00–1:50	M	M 206	
	2		8:00–8:50	Tu Th	L 151	
			8:00–8:50	F	L 171	
			4:00–4:50	M	M 207	
3			1:00–1:50	Tu ThF	L 141	
			11:00–11:50	Th	P 309	
	3		8:00–8:50	Tu Th S	L 151	
			2:00–2:50	M	M 102	
	3		8:00–8:50	Tu Th	L 151	
			8:00–8:50	F	L 171	
			9:00–9:50	Tu	M 102	
4			1:00–1:50	Tu ThF	L 141	
			3:00–3:50	Tu	Ag 154	
	4		8:00–8:50	Tu Th	L 151	
			8:00–8:50	W	L 141	
			6:00–6:50 pm	M	M 206	
	4		8:00–8:50	Tu Th	L 151	
			8:00–8:50	F	L 171	
			1:00–1:50	Tu	M 207	
5			1:00–1:50	Tu ThF	L 141	
			4:00–4:50	Tu	Ag 222	
	5		8:00–8:50	Tu Th	L 151	
			8:00–8:50	W	L 141	
			12:00–12:50	Tu	M 206	
	5		8:00–8:50	Tu Th	L 151	
			8:00–8:50	F	L 171	
			8:00–8:50	W	M 309	
6			1:00–1:50	Tu ThF	L 141	
			6:00–6:50 pm	Tu	Ag 220	
	6		8:00–8:50	Tu Th	L 151	
			8:00–8:50	W	L 141	
			2:00–2:50	Tu	M 207	
	6		8:00–8:50	Tu Th	L 151	
			8:00–8:50	F	L 171	
			11:00–11:50	W	M 207	
7			1:00–1:50	Tu ThF	L 141	
			7:35–8:25 pm	Tu	Ag 220	
	7		8:00–8:50	Tu Th	L 151	
			8:00–8:50	W	L 141	
			4:00–4:50	Tu	M 207	
	7		8:00–8:50	Tu Th	L 151	
			8:00–8:50	F	L 171	
			1:00–1:50	W	M 206	

## 24 GENERAL STUDIES AREA B (GSB)

Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time			
101c-4 Survey of Western Tradition						
8			1:00-1:50	Tu ThF	L 141	
			3:00-3:50	Th	Wh 212	
	8		8:00-8:50	Tu Th	L 151	
			8:00-8:50	W	L 141	
			6:00-6:50	Tu	M 102	
		8	8:00-8:50	Tu Th	L 151	
			8:00-8:50	F	L 171	
			1:00-1:50	Th	M 206	
9			1:00-1:50	Tu ThF	L 141	
			4:00-4:50	Th	Ag 216	
	9		8:00-8:50	Tu Th	L 151	
			8:00-8:50	W	L 141	
			7:35-8:25 pm	Tu	M 102	
		9	8:00-8:50	Tu Th	L 151	
			8:00-8:50	F	L 171	
			2:00-2:50	Th	M 102	
10			1:00-1:50	Tu ThF	L 141	
			6:00-6:50 pm	Th	Ag 220	
	10		8:00-8:50	Tu Th	L 151	
			8:00-8:50	W	L 141	
			9:00-9:50	Th	M 206	
		10	8:00-8:50	Tu Th	L 151	
			8:00-8:50	F	L 171	
			3:00-3:50	Th	M 207	
11			1:00-1:50	Tu Th F	L 141	
			7:35-8:25 pm	Th	Ag 220	
	11		8:00-8:50	Tu Th	L 151	
			8:00-8:50	W	L 141	
			10:00-10:50	W	M 206	
		11	8:00-8:50	Tu Th	L 151	
			8:00-8:50	F	L 171	
			10:00-10:50	Tu	M 102a	
12			1:00-1:50	Tu ThF	L 141	
			9:00-9:50	F	Wham 112	
	12		8:00-8:50	Tu Th	L 151	
			8:00-8:50	W	L 141	
			11:00-11:50	Th	Ag 220	
		12	8:00-8:50	Tu Th	L 151	
			8:00-8:50	F	L 171	
			11:00-11:50	Tu	M 102a	
	13		9:00-9:50	M W F	L 151	
			7:35-8:25 pm	M	M 207	
		13	3:00-3:50	M W F	L 151	
			6:00-6:50 pm	M	M 207	
	14		9:00-9:50	M W F	L 151	
			12:00-12:50	Tu	M 207	
		14	3:00-3:50	M W F	L 151	
			7:35-8:25 pm	M	M 207	
	15		9:00-9:50	M W F	L 151	
			6:00-6:50 pm	Tu	M 206	
		15	3:00-3:50	M W F	L 151	
			6:00-6:50 pm	W	M 207	
	16		9:00-9:50	M W F	L 151	
			7:35-8:25 pm	Tu	M 206	
		16	3:00-3:50	M W F	L 151	
			7:35-8:25 pm	W	M 207	
	17		9:00-9:50	M W F	L 151	
			11:00-11:50	W	M 206	
		17	3:00-3:50	M W F	L 151	
			1:00-1:50	Th	M 207	
	18		9:00-9:50	M W F	L 151	
			1:00-1:50	W	M 206	
		18	3:00-3:50	M W F	L 151	
			8:00-8:50	F	M 207	
	19		9:00-9:50	M W F	L 151	
			2:00-2:50	W	M 206	
		19	3:00-3:50	M W F	L 151	
			10:00-10:50	F	M 206	
	20		9:00-9:50	M W F	L 151	
			4:00-4:50	W	M 207	
		20	3:00-3:50	M W F	L 151	
			11:00-11:50	F	M 207	
	21		9:00-9:50	M W F	L 151	
			11:00-11:50	F	M 207	
		21	3:00-3:50	M W F	L 151	
			1:00-1:50	F	M 206	



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
			22				
			9:00–9:50	M	W	F	L 151
			8:00–8:50		Th		M 102
		22	3:00–3:50	M	W	F	L 151
			2:00–2:50			F	M 206
			23				
			9:00–9:50	M	W	F	L 151
			10:00–10:50		W		M 102
		23	3:00–3:50	M	W	F	L 151
			9:00–9:50		Tu		M 206
			24				
			9:00–9:50	M	W	F	L 151
			11:00–11:50		W		M 102
		24	3:00–3:50	M	W	F	L 151
			10:00–10:50		W		M 206
			25				
			3:00–3:50	M	W	F	L 151
			4:00–4:50		W		M 102
			26				
			3:00–3:50	M	W	F	L 151
			6:00–6:50 pm		W		M 102
			27				
			3:00–3:50	M	W	F	L 151
			7:35–8:25 pm		W		M 102
			28				
			3:00–3:50	M	W	F	L 151
			12:00–12:50		Th		M 102
			29				
			3:00–3:50	M	W	F	L 151
			2:00–2:50		Th		M 207
			30				
			3:00–3:50	M	W	F	L 151
			4:00–4:50		Th		M 102
			31				
			3:00–3:50	M	W	F	L 151
			6:00–6:50 pm		Th		M 102
			32				
			3:00–3:50	M	W	F	L 151
			7:35–8:25 pm		Th		M 102
			33				
			3:00–3:50	M	W	F	L 151
			8:00–8:50			F	M 102
			34				
			3:00–3:50	M	W	F	L 151
			9:00–9:50			F	M 102
			35				
			3:00–3:50	M	W	F	L 151
			8:00–8:50		Th		M 203
			36				
			3:00–3:50	M	W	F	L 151
			11:00–11:50		Tu		M 209
			37				
			6:00–7:25 pm	Tu	Th		L 151
			8:00–8:50		W		M 206
			38				
			6:00–7:25 pm	Tu	Th		L 151
			9:00–9:50		W		M 207
			39				
			6:00–7:25 pm	Tu	Th		L 151
			11:00–11:50		W		M 207
			40				
			6:00–7:25 pm	Tu	Th		L 151
			1:00–1:50		W		M 207
			41				
			6:00–7:25 pm	Tu	Th		L 151
			3:00–3:50		W		M 207
			42				
			6:00–7:25 pm	Tu	Th		L 151
			6:00–6:50 pm		W		M 207
			43				
			6:00–7:25 pm	Tu	Th		L 151
			7:35–8:25 pm		W		M 207
			44				
			6:00–7:25 pm	Tu	Th		L 151
			12:00–12:50		Tu		M 305
			45				
			6:00–7:25 pm	Tu	Th		L 151
			3:00–3:50		Th		M 207
			46				
			6:00–7:25 pm	Tu	Th		L 151
			7:35–8:25 pm		Th		M 206
			47				
			6:00–7:25 pm	Tu	Th		L 151
			8:00–8:50		Th		M 207
			48				
			6:00–7:25 pm	Tu	Th		L 151
			9:00–9:50		Tu		M 203
			49				
				Tu	Th		L 151
			1:00–1:50			F	L 141
			8:00–8:50		W		M 102
			50				
				Tu	Th		L 151
			1:00–1:50			F	L 141
			6:00–6:50 pm		W		M 206
			51				
				Tu	Th		L 151
			1:00–1:50			F	L 141
			12:00–12:50		Th		M 207
			52				
				Tu	Th		L 151
			1:00–1:50			F	L 141
			7:35–8:25 pm		Th		M 207
			53				
				Tu	Th		L 151
			1:00–1:50			F	L 141
			1:00–1:50			Th	Ag 220
			54				
				Tu	Th		L 151
			1:00–1:50			F	L 141
			3:00–3:50		Th		Felts 130

## 26 GENERAL STUDIES AREA B (GSB)

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		

## 101c-4 Survey of Western Tradition

55			Tu Th	L 151	
		1:00-1:50	F	L 141	
		4:00-4:50	Th	Ag 214	
56			Tu Th	L 151	
		1:00-1:50	F	L 141	
		6:00-6:50 pm	Th	Ag 220	
57			Tu Th	L 151	
		1:00-1:50	F	L 141	
		10:00-10:50	W	Ag 148	
58			Tu Th	L 151	
		1:00-1:50	F	L 141	
		12:00-12:50	W	M 302	
59			Tu Th	L 151	
		1:00-1:50	F	L 141	
		2:00-2:50	W	M 305a	
60			Tu Th	L 151	
		1:00-1:50	F	L 141	
		4:00-4:50	W	Ag 116	

## 102a-4 Man and His World

1		8:00-8:50	M W F	HEc 140b	
		2:00-2:50	M	HEc 303	
2		8:00-8:50	M W F	HEc 140b	
		2:00-2:50	M	HEc 306	
3		8:00-8:50	M W F	HEc 140b	
		3:00-3:50	M	HEc 306	
4		8:00-8:50	M W F	HEc 140b	
		10:00-10:50	Tu	HEc 306	
5		8:00-8:50	M W F	HEc 140b	
		11:00-11:50	Tu	HEc 306	
6		8:00-8:50	M W F	HEc 140b	
		1:00-1:50	Tu	HEc 306	
7		8:00-8:50	M W F	HEc 140b	
		2:00-2:50	Tu	HEc 306	
8		9:00-9:50	M W F	HEc 140b	
		2:00-2:50	W	M 102	
9		9:00-9:50	M W F	HEc 140b	
		2:00-2:50	W	HEc 306	
10		9:00-9:50	M W F	HEc 140b	
		3:00-3:50	W	HEc 306	
11		9:00-9:50	M W F	HEc 140b	
		10:00-10:50	Th	HEc 306	
12		9:00-9:50	M W F	HEc 140b	
		11:00-11:50	Th	HEc 306	
13		9:00-9:50	M W F	HEc 140b	
		1:00-1:50	Th	HEc 306	
14		9:00-9:50	M W F	HEc 140b	
		2:00-2:50	Th	HEc 306	
15		10:00-10:50	TuW F	HEc 140b	
		12:00-12:50	F	HEc 306	
16		10:00-10:50	TuW F	HEc 140b	
		1:00-1:50	F	HEc 306	
17		10:00-10:50	TuW F	HEc 140b	
		2:00-2:50	F	HEc 306	
18		10:00-10:50	TuW F	HEc 140b	
		3:00-3:50	F	HEc 306	
19		10:00-10:50	TuW F	HEc 140b	
		4:00-4:50	F	HEc 306	
20		10:00-10:50	TuW F	HEc 140b	
		8:00-8:50	Th	HEc 102	
21		10:00-10:50	TuW F	HEc 140b	
		9:00-9:50	Th	HEc 306	
22		11:00-11:50	Tu Th	HEc 140b	
		11:00-11:50	F	L 151	
		3:00-3:50	Tu	HEc 306	
23		11:00-11:50	Tu Th	HEc 140b	
		11:00-11:50	F	L 151	
		4:00-4:50	Tu	HEc 306	
24		11:00-11:50	Tu Th	HEc 140b	
		11:00-11:50	F	L 151	
		8:00-8:50	W	HEc 102	
25		11:00-11:50	Tu Th	HEc 140b	
		11:00-11:50	F	L 151	
		9:00-9:50	W	HEc 102	
26		11:00-11:50	Tu Th	HEc 140b	
		11:00-11:50	F	L 151	
		12:00-12:50	W	HEc 306	

Course No.—Hours	Descriptive Title					Prerequisite Instructor
	Fall	Winter	Spring	Time	Days	Place
27				11:00–11:50	Tu Th	HEc 140b
				11:00–11:50	F	L 151
				1:00–1:50	W	HEc 306
28				11:00–11:50	Tu Th	HEc 140b
				11:00–11:50	F	L 151
				4:00–4:50	W	HEc 306
29				2:00–2:50	TuW F	HEc 140b
				3:00–3:50	Th	HEc 306
30				2:00–2:50	TuW F	HEc 140b
				4:00–4:50	Th	HEc 306
31				2:00–2:50	TuW F	HEc 140b
				8:00–8:50	F	HEc 102
32				2:00–2:50	TuW F	HEc 140b
				9:00–9:50	F	HEc 102
33				2:00–2:50	TuW F	HEc 140b
				10:00–10:50	F	HEc 306
34				2:00–2:50	TuW F	HEc 140b
				10:00–10:50	S	HEc 102
35				2:00–2:50	TuW F	HEc 140b
				11:00–11:50	S	HEc 102
36 *				1:00–1:50	M W F	Ag 220
	1			8:00–8:50	M W F	HEc 140b
				12:00–12:50	F	HEc 306
2				8:00–8:50	M W F	HEc 140b
				1:00–1:50	F	HEc 306
3				8:00–8:50	M W F	HEc 140b
				2:00–2:50	F	HEc 306
4				8:00–8:50	M W F	HEc 140b
				3:00–3:50	F	HEc 306
5				8:00–8:50	M W F	HEc 140b
				4:00–4:50	F	HEc 306
6				8:00–8:50	M W F	HEc 140b
				10:00–10:50	S	HEc 102
7				8:00–8:50	M W F	HEc 140b
				11:00–11:50	S	HEc 102
8				11:00–11:50	Tu Th S	HEc 140b
				9:00–9:50	F	HEc 306
9				11:00–11:50	Tu Th S	HEc 140b
				10:00–10:50	F	HEc 306
10				11:00–11:50	Tu Th S	HEc 140b
				11:00–11:50	F	HEc 306
11				11:00–11:50	Tu Th S	HEc 140b
				2:00–2:50	F	HEc 118
12				11:00–11:50	Tu Th S	HEc 140b
				3:00–3:50	F	HEc 118
13				11:00–11:50	Tu Th S	HEc 140b
				8:00–8:50	Th	HEc 104
14				11:00–11:50	Tu Th S	HEc 140b
				9:00–9:50	Th	HEc 104
15				12:00–12:50	Tu ThF	HEc 140b
				9:00–9:50	M	HEc 306
16				12:00–12:50	Tu Th F	HEc 140b
				10:00–10:50	M	HEc 306
17				12:00–12:50	Tu ThF	HEc 140b
				11:00–11:50	M	HEc 306
18				12:00–12:50	Tu ThF	HEc 140b
				3:00–3:50	M	HEc 306
19				12:00–12:50	Tu ThF	HEc 140b
				4:00–4:50	M	HEc 306
20				12:00–12:50	Tu ThF	HEc 140b
				8:00–8:50	Tu	HEc 306
21				12:00–12:50	Tu ThF	HEc 140b
				9:00–9:50	Tu	HEc 306
22				3:00–3:50	MTu Th	Tech A111
				9:00–9:50	W	HEc 306
23				3:00–3:50	MTu Th	Tech A111
				10:00–10:50	W	HEc 306
24				3:00–3:50	MTu Th	Tech A111
				11:00–11:50	W	HEc 306
25				3:00–3:50	MTu Th	Tech A111
				3:00–3:50	W	HEc 306
26				3:00–3:50	MTu Th	Tech A111
				4:00–4:50	W	HEc 306
27				3:00–3:50	MTu Th	Tech A111
				8:00–8:50	Th	HEc 306
28				3:00–3:50	MTu Th	Tech A111
				9:00–9:50	Th	HEc 306



## 28 GENERAL STUDIES AREA B (GSB)

Course No.—Hours			Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time					
102a-4 Man and His World								
	29		4:00-4:50	MTu Th			HEc 140b	
			1:00-1:50	W			HEc 306	
	30		4:00-4:50	MTu Th			HEc 140b	
			2:00-2:50	W			HEc 306	
	31		4:00-4:50	MTu Th			HEc 140b	
			2:00-2:50	W			Wham 112	
	32		4:00-4:50	MTu Th			HEc 140b	
			10:00-10:50	Th			HEc 306	
	33		4:00-4:50	MTu Th			HEc 140b	
			11:00-11:50	Th			HEc 306	
	34		4:00-4:50	MTu Th			HEc 140b	
			1:00-1:50	Th			HEc 306	
	35		4:00-4:50	MTu Th			HEc 140b	
			2:00-2:50	Th			HEc 306	
36 *			1:00-1:50	M W F			Wham 228	
	1		8:00-8:50	M W F			HEc 140b	
			10:00-10:50	Th			HEc 306	
	2		8:00-8:50	M W F			HEc 140b	
			11:00-11:50	Th			HEc 306	
	3		8:00-8:50	M W F			HEc 140b	
			1:00-1:50	Th			HEc 306	
	4		8:00-8:50	M W F			HEc 140b	
			2:00-2:50	Th			HEc 306	
	5		8:00-8:50	M W F			HEc 140b	
			3:00-3:50	Th			HEc 306	
	6		8:00-8:50	M W F			HEc 140b	
			10:00-10:50	F			HEc 306	
	7		8:00-8:50	M W F			HEc 140b	
			11:00-11:50	F			HEc 306	
	8		9:00-9:50	M W F			HEc 140b	
			12:00-12:50	F			HEc 306	
	9		9:00-9:50	M W F			HEc 140b	
			1:00-1:50	F			HEc 306	
	10		9:00-9:50	M W F			HEc 140b	
			2:00-2:50	F			HEc 306	
	11		9:00-9:50	M W F			HEc 140b	
			3:00-3:50	F			HEc 306	
	12		9:00-9:50	M W F			HEc 140b	
			4:00-4:50	F			HEc 306	
	13		9:00-9:50	M W F			HEc 140b	
			8:00-8:50	Tu			HEc 102	
	14		9:00-9:50	M W F			HEc 140b	
			9:00-9:50	Tu			HEc 120	
	15		10:00-10:50	M W F			HEc 140b	
			2:00-2:50	W			HEc 306	
	16		10:00-10:50	M W F			HEc 140b	
			3:00-3:50	W			HEc 306	
	17		10:00-10:50	M W F			HEc 140b	
			4:00-4:50	W			HEc 306	
	18		10:00-10:50	M W F			HEc 140b	
			8:00-8:50	Th			HEc 306	
	19		10:00-10:50	M W F			HEc 140b	
			9:00-9:50	Th			HEc 306	
	20		10:00-10:50	M W F			HEc 140b	
			3:00-3:50	Th			HEc 118	
	21		10:00-10:50	M W F			HEc 140b	
			4:00-4:50	Th			HEc 306	
	22		3:00-3:50	M W F			Tech A111	
			12:00-12:50	Tu			HEc 306	
	23		3:00-3:50	M W F			Tech A111	
			1:00-1:50	Tu			HEc 306	
	24		3:00-3:50	M W F			Tech A111	
			2:00-2:50	Tu			HEc 306	
	25		3:00-3:50	M W F			Tech A111	
			3:00-3:50	Tu			HEc 306	
	26		3:00-3:50	M W F			Tech A111	
			4:00-4:50	Tu			HEc 306	
	27		3:00-3:50	M W F			Tech A111	
			8:00-8:50	W			HEc 102	
	28		3:00-3:50	M W F			Tech A111	
			9:00-9:50	W			HEc 102	
	29		4:00-4:50	M W F			HEc 140b	
			10:00-10:50	S			HEc 306	
	30		4:00-4:50	M W F			HEc 140b	
			11:00-11:50	Tu			HEc 306	
	31		4:00-4:50	M W F			HEc 140b	
			10:00-10:50	M			HEc 306	

Course No.—Hours		Descriptive Title				Prerequisite Instructor
Fall	Winter		Spring	Time	Days	Place
		32	4:00-4:50		M W F	HEc 140b
			11:00-11:50		M	HEc 306
		33	4:00-4:50		M W F	HEc 140b
			1:00-1:50		M	HEc 306
		34	4:00-4:50		M W F	HEc 140b
			2:00-2:50		M	HEc 306
		35	4:00-4:50		M W F	HEc 140b
			3:00-3:50		M	HEc 306
36 *			1:00-1:50		M W F	Wham 228

\* Honors Sections: permission of instructor required for enrollment. 1 additional hour to be arranged.

#### 102b-4 Man and His World—Spatial Patterns

1		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		Wham 203
	1	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		Wham 203
	1	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		Ag 224
2		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		Ag 220
	2	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		Wham 205
	2	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		Ag 220
3		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		Ag 224
	3	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		Wham 206
	3	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		M 102
4		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		Ag 154
	4	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		Wham 305
	4	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		M 207
5		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		Wham 210
	5	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		Wham 328
	5	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		M 210
6		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		Wham 208
	6	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		M 102
	6	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		M 303
7		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		M 308
	7	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		M 206
	7	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		M 305a
8		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		M 303
	8	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		M 308
	8	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		P 111
9		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		M 305a
	9	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		Ag 116
	9	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		M 308
10		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		M 207
	10	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		Ag 224
	10	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		P 301
11		8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		HEc 106
	11	12:00-12:50		Tu Th		L 171
		12:00-12:50		W F		Ag 148
	11	8:00-8:50		M W		L 171
		8:00-8:50		Tu Th		P 309

## 30 GENERAL STUDIES AREA B (GSB)

Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time			
<b>102b-4 Man and His World—Spatial Patterns</b>						
12			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	Wham 210	
	12		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	Ag 148	
		12	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	M 305a	
13			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	Wham 328	
	13		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	M 102	
		13	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	P 204	
14			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	Ag 150	
	14		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	M 206	
		14	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	Tech A204	
15			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	Ag 154	
	15		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	M 303	
		15	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	Pierce 129	
16			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	HEc 201	
	16		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	M 308	
		16	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	Wham 319	
17			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	Comm 120	
	17		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	HEc 306	
		17	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	Ag 154	
18			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	Comm 122	
	18		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	Wham 203	
		18	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	Ag 148	
19			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	HEc 120	
	19		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	Wham 205	
		19	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	Ag 220	
20			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	Wh 107	
	20		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	Wham 206	
		20	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	Gym 204	
21			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	Gym 204	
	21		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	HEc 104	
		21	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	HEc 106	
22			2:00-2:50	M Th	L 171	
			2:00-2:50	Tu F	M 302	
	22		3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	Ag 220	
		22	11:00-11:50	Tu Th	L 171	
			11:00-11:50	M W	HEc 120	
23			3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	M 308	
	23		4:00-4:50	M W	L 171	
			4:00-4:50	Tu Th	M 305a	
		23	3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	M 305a	
24			3:00-3:50	M W	L 171	
			3:00-3:50	Tu Th	Wham 203	
	24		4:00-4:50	M W	L 171	
			4:00-4:50	Tu Th	HEc 303	



Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
25		24	3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	HEc 120
			3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	Wham 205
26		25	4:00-4:50	M W	L 171
			4:00-4:50	Tu Th	M 102a
		25	3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	HEc 206
27			3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	HEc 303
			3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	Wham 210
28		26	4:00-4:50	M W	L 171
			4:00-4:50	Tu Th	Wham 206
			4:00-4:50	M W	L 171
			4:00-4:50	Tu Th	M 206
29		26	3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	HEc 120
		27	3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	Ag 116
30			3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	Wham 328
		28	4:00-4:50	M W	L 171
			4:00-4:50	Tu Th	Ag 220
31		28	3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	Ag 148
			3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	Ag 116
32		29	4:00-4:50	M W	L 171
			4:00-4:50	Tu Th	HEc 104
		29	3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	Ag 220
201b-4			3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	Ag 220
		30	4:00-4:50	M W	L 171
			4:00-4:50	Tu Th	HEc 118
1		30	3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	Ag 222
		31	3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	Ag 222
2		31	4:00-4:50	M W	L 171
			4:00-4:50	Tu Th	Gym 204
		31	3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	M 206
3			3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	HEc 106
		32	4:00-4:50	M W	L 171
			4:00-4:50	Tu Th	HEc 306
4		32	3:00-3:50	M W	L 171
			3:00-3:50	Tu Th	M 303
<b>Culture, Society and Behavior</b>					
1			9:00-9:50	M W	Wham 105
			10:00-10:50	Tu Th	HEc 118
		1	9:00-9:50	M W	Wham 105
			10:00-10:50	Tu Th	Wham 112
2		1	9:00-9:50	Tu Th	Wham 105
			8:00-8:50	W F	Wham 212
			9:00-9:50	M W	Wham 105
			11:00-11:50	Tu Th	HEc 118
3		2	9:00-9:50	M W	Wham 105
			1:00-1:50	Tu Th	Wham 112
			9:00-9:50	Tu Th	Wham 105
		2	9:00-9:50	W F	Wham 212
4			9:00-9:50	M W	Wham 105
			12:00-12:50	Tu Th	HEc 118
		3	9:00-9:50	M W	Wham 105
			3:00-3:50	Tu Th	Wham 112
5		3	9:00-9:50	Tu Th	Wham 105
			11:00-11:50	W F	Wham 212
			9:00-9:50	M W	Wham 105
			2:00-2:50	Tu Th	HEc 118
6		4	9:00-9:50	M W	Wham 105
			4:00-4:50	Tu Th	Wham 112
			9:00-9:50	Tu Th	Wham 105
		4	12:00-12:50	W F	HEc 118
7			9:00-9:50	M W	Wham 105
			4:00-4:50	Tu Th	Bailey 130

## 32 GENERAL STUDIES AREA B (GSB)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite
Fall	Winter	Spring	Time				Instructor
<b>201b-4 Culture, Society and Behavior</b>							
	5		9:00-9:50	M	W	Wham 105	Rosse
			4:00-4:50	Tu	Th	Bailey 130	
		5	9:00-9:50	Tu	Th	Wham 105	Blai
			1:00-1:50		W F	HEc 118	
6			9:00-9:50	M	W	Wham 105	Blai
			3:00-3:50	Tu	Th	HEc 118	
	6		9:00-9:50	M	W	Wham 105	Rosse
			8:00-8:50	Tu	Th	Wham 212	
		6	9:00-9:50	Tu	Th	Wham 105	Blai
			2:00-2:50		W F	HEc 118	
7			9:00-9:50	M	W	Wham 105	Blai
			4:00-4:50	Tu	Th	HEc 118	
	7		9:00-9:50	M	W	Wham 105	Rosse
			9:00-9:50	Tu	Th	Wham 212	
		7	9:00-9:50	Tu	Th	Wham 105	Blai
			3:00-3:50		W F	HEc 118	
8			9:00-9:50	M	W	Wham 105	Blai
			10:00-10:50	Tu	Th	Wham 112	
	8		9:00-9:50	M	W	Wham 105	Rosse
			10:00-10:50	Tu	Th	Wham 212	
		8	9:00-9:50	Tu	Th	Wham 105	Blai
			4:00-4:50		W F	HEc 118	
9	9	9	1:00-1:50	M	W	L 141	Nall
			8:00-8:50	Tu	Th	Bailey 130	
10	10	10	1:00-1:50	M	W	L 141	Nall
			9:00-9:50	Tu	Th	Bailey 130	
11	11	11	1:00-1:50	M	W	L 141	Nall
			10:00-10:50	Tu	Th	Bailey 130	
12	12	12	1:00-1:50	M	W	L 141	Nall
			11:00-11:50	Tu	Th	Bailey 130	
13	13	13	1:00-1:50	M	W	L 141	Nall
			12:00-12:50	Tu	Th	Bailey 130	
14	14	14	1:00-1:50	M	W	L 141	Nall
			1:00-1:50	Tu	Th	Bailey 130	
15	15	15	1:00-1:50	M	W	L 141	Nall
			2:00-2:50	Tu	Th	Bailey 130	
16	16	16	1:00-1:50	M	W	L 141	Nall
			3:00-3:50	Tu	Th	Bailey 130	
17			9:00-9:50	Tu	Th	L 161	
			8:00-8:50		W F	Tech D131	
	17	17	9:00-9:50	Tu	Th	L 161	Patterson
			8:00-8:50		W F	Pierce 130	
18	18	18	9:00-9:50	Tu	Th	L 161	Patterson
			9:00-9:50		W F	Bailey 130	
19	19	19	9:00-9:50	Tu	Th	L 161	Patterson
			10:00-10:50		W F	Bailey 130	
20	20	20	9:00-9:50	Tu	Th	L 161	Patterson
			11:00-11:50		W F	Bailey 130	
21	21	21	9:00-9:50	Tu	Th	L 161	Patterson
			12:00-12:50		W F	Bailey 130	
22	22	22	9:00-9:50	Tu	Th	L 161	Patterson
			1:00-1:50		W F	Bailey 130	
23	23	23	9:00-9:50	Tu	Th	L 161	Patterson
			2:00-2:50		W F	Bailey 130	
24	24	24	9:00-9:50	Tu	Th	L 161	Patterson
			3:00-3:50		W F	Bailey 130	
25		25	7:35-9:15 pm	M	W	Wham 112	Nall
	25		7:35-9:15 pm	M	W	HEc 118	Nall
26			7:35-9:15 pm	Tu	Th	Wham 112	Nall
	τ26		9:00-9:50	MTuWTh		Wham 112	Brooks
		τ26	2:00-2:50	MTu	ThF	Wham 112	Eades
τ27			1:00-1:50	MTu	ThF	Wham 212	Eades
	τ27		2:00-2:50	MTu	ThF	Wham 112	Eades
<b>201c-4 Culture, Society and Behavior (Psychology)</b>							
1	1	1	11:00-11:50	M	W	L 141	Carrier
			1:00-2:50		W	Ag 146	
2	2	2	11:00-11:50	M	W	L 141	Carrier
			6:00-7:50 pm		W	Ag 146	
3	3	3	11:00-11:50	M	W	L 141	Carrier
			8:00-9:50		Th	Ag 146	
4	4	4	11:00-11:50	M	W	L 141	Carrier
			10:00-11:50		Th	Ag 146	
5	5	5	11:00-11:50	M	W	L 141	Carrier
			1:00-2:50		Th	Ag 146	
6	6	6	11:00-11:50	M	W	L 141	Carrier
			3:00-4:50		Th	Ag 146	

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
7	7	7	11:00-11:50 8:00-9:50	M W F Ag 146	Carrier
8	8	8	11:00-11:50 12:00-1:50	M W F Ag 146	Carrier
9	9	9	11:00-11:50 8:00-9:50	M W S Ag 146	Carrier
10	10	10	11:00-11:50 10:00-11:50	M W S Ag 146	Carrier
11	11	11	4:00-4:50 1:00-2:50	M W Ag 154	Carrier
12	12	12	4:00-4:50 6:00-7:50 pm	M W Th Ag 148	Carrier
13	13	13	4:00-4:50 8:00-9:50	M W Th Ag 148	Carrier
14	14	14	4:00-4:50 10:00-11:50	M W Th Ag 148	Carrier
15	15	15	4:00-4:50 1:00-2:50	M W Th Ag 154	Carrier
16	16	16	4:00-4:50 3:00-4:50	M W Th Ag 154	Carrier
17	17	17	4:00-4:50 8:00-9:50	M W F Ag 168	Carrier
18	18	18	4:00-4:50 12:00-1:50	M W F Ag 222	Carrier
19	19	19	4:00-4:50 8:00-9:50	M W S Ag 116	Carrier
20	20	20	4:00-4:50 10:00-11:50	M W S Ag 116	Carrier
21	21		6:00-7:40 pm 4:00-5:50	M W Ag 146	Carrier
		21	6:00-7:40 pm 3:00-4:50	M W Ag 146	Carrier
22	22		6:00-7:40 pm 3:00-4:50	M W Wham 329	Carrier
		22	6:00-7:40 pm 3:00-4:50	M W Wham 312	Carrier
23	23	23	6:00-7:40 pm 6:00-7:50 pm	M Th Ag 146	Carrier
24	24	24	6:00-7:40 pm 6:00-7:50 pm	M W Ag 148	Carrier
25	25	25	6:00-7:40 pm 10:00-11:50	M F Ag 146	Carrier
26	26	26	6:00-7:40 pm 10:00-11:50	M F Ag 148	Carrier
27		27	6:00-7:40 pm 2:00-3:50	M F Ag 146	Carrier
	27		6:00-7:40 pm 1:00-2:50	M F Ag 116	Carrier
28	28	28	6:00-7:40 pm 2:00-3:50	M F Ag 222	Carrier
<b>211a-4 Political Economy</b>					
1	1	1	9:00-9:50	M WThF	L 141
2		2	10:00-10:50	MTu ThF	L 121
	2		10:00-10:50	M WThF	L 121
3	3	3	12:00-12:50	M WThF	L 121
4	4	4	2:00-2:50	M WThF	L 151
5	5	5	5:45-7:25 pm	M W	L 121
<b>211b-4 Political Economy</b>					
1	1	1	10:00-10:50 8:00-8:50	M W F Th	L 141 Wham 228
2	2	2	10:00-10:50 8:00-8:50	M W F Tu	L 141 Wham 228
3	3	3	10:00-10:50 9:00-9:50	M W F Tu	L 141 Wham 228
4	4	4	10:00-10:50 9:00-9:50	M W F Th	L 141 Wham 228
5	5	5	10:00-10:50 9:00-9:50	M W F Tu	L 141 L 131
6	6	6	10:00-10:50 9:00-9:50	M W F Th	L 141 L 131
7	7	7	10:00-10:50 9:00-9:50	M W F Th	L 141 Wham 201
8	8	8	10:00-10:50 8:00-8:50	M W F Th	L 141 Wham 326
9	9	9	10:00-10:50 12:00-12:50	M W F Tu	L 141 L 131



## 34 GENERAL STUDIES AREA B (GSB)

Course No.—Hours		Descriptive Title		Days			Place		Prerequisite
Fall	Winter	Spring	Time						Instructor
<b>211b-4 Political Economy</b>									
10	10	10	10:00-10:50	M	W	F	L 141		
			12:00-12:50			Th	L 131		
11	11	11	3:00-3:50	M	W	F	L 141		
			3:00-3:50			Tu	Wham 228		
12	12	12	3:00-3:50	M	W	F	L 141		
			3:00-3:50			Th	Wham 228		
13	13	13	3:00-3:50	M	W	F	L 141		
			3:00-3:50			Tu	Wham 201		
14	14	14	3:00-3:50	M	W	F	L 141		
			3:00-3:50			Tu	Wham 208		
15	15	15	3:00-3:50	M	W	F	L 141		
			3:00-3:50			Th	Wham 208		
16	16	16	3:00-3:50	M	W	F	L 141		
			2:00-2:50			Tu	Wham 228		
17	17	17	3:00-3:50	M	W	F	L 141		
			2:00-2:50			Th	Wham 228		
18	18	18	3:00-3:50	M	W	F	L 141		
			4:00-4:50			Tu	Wham 228		
19	19	19	3:00-3:50	M	W	F	L 141		
			1:00-1:50			Th	Wham 228		
20	20	20	3:00-3:50	M	W	F	L 141		
			1:00-1:50			Tu	Wham 228		
21	21	21	12:00-12:50	MTu	Th	F	Wham 228		
		22	1:00-1:50	MTu	Th	F	HEc 120		
22	22	23	5:45-7:25 pm	M	W		L 131		
23	23	24	5:45-7:25 pm		Tu	Th	Wham 201		
24	24	25	7:35-9:15 pm	M	W		L 131		
	25	26	7:35-9:15 pm		Tu	Th	Wham 208		
<b>300a-3 History of the United States (to 1815)</b>									
1			10:00-10:50	M	W	F	L 151		
2			3:00-3:50	M	W	F	L 161		Ammon
3			7:35-9:00 pm	M	W		M 206		
<b>300b-3 History of the United States (1815-1900)</b>									
	1		10:00-10:50	M	W	F	L 151		Simon
	2		3:00-3:50	M	W	F	L 161		
	3		7:35-9:00 pm	M	W		M 206		Evans
	4		8:00-8:50	MTu	Th		M 210		
<b>300c-3 History of the United States (1900 to present)</b>									
		1	10:00-10:50	M	W	F	L 151		Adams
		2	3:00-3:50	M	W	F	L 161		Allen
		3	7:35-9:00 pm	M	W		M 206		
		4	8:00-8:50	M	W	F	M 210		
<b>302-3 Law—Civil Rights</b>									
1			10:00-10:50	M	W	F	Wham 201		Wasby
	1		3:00-3:50	MTu	Th		L 131		Nelson
<b>303-3 International Relations</b>									
1	1	1	9:00-11:30			S	L 131		
		2	10:00-10:50	MTu	Th		L 131		
	2		11:00-11:50	M	W	F	L 131		
	3		12:00-12:50	M	W	F	Wham 208		
2			1:00-1:50	M	W	F	Wham 201		
	4		2:00-2:50	M	W	F	Wham 228		
3			3:00-3:50	M	W	F	Wham 228		
		3	3:00-3:50	M	W	F	L 131		
4		4	4:00-4:50	M	W	Th	Wham 228		
<b>304-3 Law: History and Philosophy</b>									
	1		10:00-10:50		Tu	ThF	Wham 228		Abbass
<b>311-3 Economic Development of U.S.</b>									
1	1	1	9:00-9:50	M	W	F	L 121		Russell
2	2	2	3:00-3:50	M	W	F	L 121		Morrison
<b>312-3 Comparative Economic Systems</b>									
1	1	1	1:00-1:50		Tu	ThF	L 121		Haitani
<b>314-3 Economic Analysis of the Agriculture Policies of the U.S.</b>									
									211a,b,c
1			8:00-8:50	Tu	W	F	Ag 225		Haag
2			8:00-8:50	Tu	Th	F	Ag 225		Haag
	1		3:00-3:50			Th	Ag 224		Haag
			3:00-3:50			Tu	Ag 225		Haag
	2		3:00-3:50			F	Ag 214		Haag
			3:00-3:50			Tu	Ag 225		Haag
		1	8:00-8:50		Tu	ThF	Ag 214		Haag
		2	8:00-8:50		Tu	W	Ag 214		Haag
<b>321-3 Socialization of the Individual</b>									
1			1:00-2:50	M			Wham 112		Duncan
			1:00-1:50		W		Wham 112		
	1		1:00-1:50	M	W	F	Wham 112		Nall
		1	1:00-1:50	M	W	F	Wham 112		Nall

Course No.	Hours			Descriptive Title	Days			Place	Prerequisite	Instructor
	Fall	Winter	Spring							
325-3	Race and Minority Relations								201b	
	1			10:00-10:50	M	W	F	Wham 112	Patterson	
331-3	The American Educational Systems									
	1	1	1	8:00-8:50	M	W	F	Wham 205		
	2	2	2	9:00-9:50	M	W	F	Wham 205		
	3	3	3	10:00-10:50	M	W	F	Wham 205		
	4	4	4	11:00-11:50	M	W	F	Wham 205		
	5	5	5	6:00-7:25 pm		Tu	Th	Wham 205		
	6	6	6	1:00-1:50	M	W	F	Wham 205		
	7	7	7	2:00-2:50	M	W	F	Wham 205		
	8	8	8	3:00-3:50	M	W	F	Wham 205		
	9	9	9	6:00-7:25 pm	M	W		Wham 205		
	10			8:00-8:50		Tu	Th	Wham 205		
				8:00-8:50	M			Wham 203		
		10		8:00-8:50		Tu	Th	Wham 205		
				8:00-8:50	M			Wham 210		
			10	8:00-8:50		Tu	Th	Wham 205		
				8:00-8:50	M			Wham 308		
341-3	Marriage								201b	
	1			12:00-12:50	M	W	F	L 171	Snyder	
	2			10:00-10:50	M	W	F	Wham 112	Patterson	
		1		9:00-9:50	M	W	F	LS 133	Snyder	
			1	10:00-10:50	M	W	F	LS 133	Snyder	
			2	10:00-10:50	M	W	F	Wham 112	Patterson	
			3	8:00-8:50	M	W	F	HEc 118	Snyder	
345-3	Introduction American Foreign Policy									
	1	1	1	9:00-9:50	M	W	F	L 131	Landecker	
354-3	Industrial Economic Geography									
	1			2:00-2:50	M	W	Th	Comm 122		
		1	1	3:00-3:50	M	W	F	Comm 122		
361-3	Engineering Economics								Junior standing	
	1	1	1	2:00-2:50	M	W	F	Tech A208		
369-3	The Contemporary Far East									
		1		8:00-8:50	M	W	F	M 206	Kuo	
380a-3	East Europe: Cultural Heritage									
	1			4:00-4:50		Tu	ThF	M 102	O'Day	
380b-3	East Europe: Present Institutions									
	1			10:00-10:50	M	W	F	Wham 201	Kamarasy	
385-3	Contemporary Political Isms									
		1		8:00-8:50	M	W	F	Wham 201	Kamarasy	
	1			9:00-9:50	M	W	F	Wham 228	Kamarasy	
		1		3:00-3:50	M	W	F	Wham 228	Kamarasy	
390-3	Introduction Comparative Governments									
	1	1	1	12:00-12:50	M	W	F	L 131	Dale	
			2	2:00-2:50	M	W	F	M 210	Hardenbergh	
		2		3:00-3:50	M	W	F	Wham 201	Hardenbergh	
	2			4:00-4:50	M	W	Th	L 131	Dale	
392-3	Introduction Latin American Government and Politics									
		1		9:00-9:50	M	W	F	Wham 201	Garner	
	1			1:00-1:50	M	W	F	Wham 228	Garner	
		1		3:00-3:50	M	W	F	Wham 201	Garner	

### GENERAL STUDIES AREA C — MAN'S INSIGHTS AND APPRECIATIONS (GSC)

<b>100-3</b>	<b>Music Understanding</b>									
1	1	1	8:00-8:50	M	W	F	L 161		Chadwick	
2		2	10:00-10:50	Tu	Th	S	L 161		Chadwick	
	2		10:00-10:50	Tu	Th	S	Wham 105			
3	3		1:00-1:50	M	W	F	L 161		Chadwick	
		3	1:00-1:50	M	W	F	Wham 105			
4	4	4	2:00-2:50	M	W	F	L 161		Betterton	
<b>101-3</b>	<b>Art Appreciation</b>									
Sections 21-40—Students enrolled in these sections will schedule as much additional time as necessary to complete tapes in Audio-Tutorial Laboratory.										
1			9:00-9:50	Tu	Th		L 171		Magnus	
			8:00-9:50	M			A 102			
	1		12:00-12:50	Tu	Th		L 151		Magnus	
			8:00-9:50	M			A 102			
		1	10:00-10:50	Tu	Th		L 151		Magnus	
			8:00-9:50	M			A 102			
2			9:00-9:50	Tu	Th		L 171		Magnus	
			8:00-9:50			S	A 106			
	2		12:00-12:50	Tu	Th		L 151		Magnus	
			8:00-9:50			S	A 106			

## 36 GENERAL STUDIES AREA C (GSC)

Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor	
Fall	Winter						
101-3 Art Appreciation							
3	2	10:00-10:50	Tu	Th	L 151	Magnus	
		8:00-9:50		S	A 106		
		9:00-9:50	Tu	Th	L 171		
		3:00-4:50	M		A 102		
3	3	12:00-12:50	Tu	Th	L 151	Magnus	
		3:00-4:50	M		A 102		
		10:00-10:50	Tu	Th	L 151		Magnus
		3:00-4:50	M		A 102		
4	3	9:00-9:50	Tu	Th	L 171	Magnus	
		1:00-2:50	M		A 102		
		12:00-12:50	Tu	Th	L 151		Magnus
		1:00-2:50	M		A 102		
4	4	10:00-10:50	Tu	Th	L 151	Magnus	
		1:00-2:50	M		A 102		
		9:00-9:50	Tu	Th	L 171		Magnus
		1:00-2:50		F	A 102		
5	5	12:00-12:50	Tu	Th	L 151	Magnus	
		1:00-2:50		F	A 102		
		10:00-10:50	Tu	Th	L 151		Magnus
		1:00-2:50		F	A 102		
6	5	9:00-9:50	Tu	Th	L 171	Magnus	
		3:00-4:50		W	A 102		
		12:00-12:50	Tu	Th	L 151		Magnus
		3:00-4:50		W	A 102		
6	6	10:00-10:50	Tu	Th	L 151	Magnus	
		3:00-4:50		W	A 102		
		9:00-9:50	Tu	Th	L 171		Magnus
		11:00-12:50		F	A 102		
7	7	12:00-12:50	Tu	Th	L 151	Magnus	
		11:00-12:50		F	A 102		
		10:00-10:50	Tu	Th	L 151		Magnus
		11:00-12:50		F	A 102		
8	7	9:00-9:50	Tu	Th	L 171	Magnus	
		8:00-9:50		W	A 102		
		12:00-12:50	Tu	Th	L 151		Magnus
		8:00-9:50		W	A 102		
8	8	10:00-10:50	Tu	Th	L 151	Magnus	
		8:00-9:50		W	A 102		
		9:00-9:50	Tu	Th	L 171		Magnus
		10:00-11:50		S	A 102		
9	9	12:00-12:50	Tu	Th	L 151	Magnus	
		10:00-11:50		S	A 102		
		10:00-10:50	Tu	Th	L 151		Magnus
		10:00-11:50		S	A 102		
10	9	9:00-9:50	Tu	Th	L 171	Magnus	
		11:00-12:50	M		A 102		
		12:00-12:50	Tu	Th	L 151		Magnus
		11:00-12:50	M		A 102		
10	10	10:00-10:50	Tu	Th	L 151	Magnus	
		11:00-12:50	M		A 102		
		2:00-2:50	Tu	Th	L 161		Magnus
		8:00-9:50		Th	A 102		
11	11	2:00-2:50	Tu	Th	L 161	Magnus	
		8:00-9:50		Th	A 102		
		2:00-2:50	Tu	Th	L 161		Magnus
		8:00-9:50		Th	A 102		
11	11	3:00-3:50	Tu	Th	L 151	Magnus	
		8:00-9:50		Th	A 102		
		2:00-2:50	Tu	Th	L 161		Magnus
		1:00-2:50		W	A 102		
12	12	2:00-2:50	Tu	Th	L 161	Magnus	
		1:00-2:50		W	A 102		
		2:00-2:50	Tu	Th	L 161		Magnus
		1:00-2:50		W	A 102		
12	12	3:00-3:50	Tu	Th	L 151	Magnus	
		1:00-2:50		W	A 102		
		2:00-2:50	Tu	Th	L 161		Magnus
		8:00-9:50		Th	A 102		
13	13	2:00-2:50	Tu	Th	L 161	Magnus	
		8:00-9:50	Tu		A 102		
		2:00-2:50	Tu	Th	L 161		Magnus
		8:00-9:50	Tu		A 102		
13	13	3:00-3:50	Tu	Th	L 151	Magnus	
		8:00-9:50	Tu		A 102		
		2:00-2:50	Tu	Th	L 161		Magnus
		11:00-12:50		Th	A 102		
14	14	2:00-2:50	Tu	Th	L 161	Magnus	
		11:00-12:50		Th	A 102		
		2:00-2:50	Tu	Th	L 161		Magnus
		11:00-12:50		Th	A 102		
14	14	3:00-3:50	Tu	Th	L 151	Magnus	
		11:00-12:50		Th	A 102		
		2:00-2:50	Tu	Th	L 161		Magnus
		8:00-9:50		F	A 102		
15	15	2:00-2:50	Tu	Th	L 161	Magnus	
		8:00-9:50		F	A 102		



Course No.	Hours			Descriptive Title	Days		Place	Prerequisite Instructor
	Fall	Winter	Spring					
		15		2:00-2:50	Tu	Th	L 161	Magnus
				8:00-9:50		F	A 102	
		15		3:00-3:50	Tu	Th	L 151	Magnus
				8:00-9:50		F	A 102	
16				2:00-2:50	Tu	Th	L 161	Magnus
				8:00-9:50		S	A 112	
	16			2:00-2:50	Tu	Th	L 161	Magnus
				8:00-9:50		S	A 112	
	16			3:00-3:50	Tu	Th	L 151	Magnus
				8:00-9:50		S	A 112	
17				2:00-2:50	Tu	Th	L 161	Magnus
				11:00-12:20		W	A 102	
	17			2:00-2:50	Tu	Th	L 161	Magnus
				11:00-12:50		W	A 102	
		17		3:00-3:50	Tu	Th	L 151	Magnus
				11:00-12:50		W	A 102	
18				2:00-2:50	Tu	Th	L 161	Magnus
				10:00-11:50		S	A 112	
	18			2:00-2:50	Tu	Th	L 161	Magnus
				10:00-11:50		S	A 112	
	18			3:00-3:50	Tu	Th	L 151	Magnus
				10:00-11:50		S	A 112	
19				2:00-2:50	Tu	Th	L 161	Magnus
				10:00-11:50		S	A 102	
	19			2:00-2:50	Tu	Th	L 161	Magnus
				10:00-11:50		S	A 102	
		19		3:00-3:50	Tu	Th	L 151	Magnus
				10:00-11:50		S	A 102	
20				2:00-2:50	Tu	Th	L 161	Magnus
				8:00-9:50		S	A 102	
	20			2:00-2:50	Tu	Th	L 161	Magnus
				8:00-9:50		S	A 102	
		20		3:00-3:50	Tu	Th	L 151	Magnus
				8:00-9:50		S	A 102	
21	21	21		10:00-11:50		S	A 106	
				9:00-9:50	M		A 207	
22	22	22		8:00-9:50	Tu		A 202	
				11:00-11:50	M		A 207	
23	23	23		5:00-6:50	Tu		A 102	
				2:00-2:50	M		A 207	
24	24	24		5:00-6:50	M		A 102	
				11:00-11:50	Tu		A 207	
25	25	25		5:00-6:50		Th	A 102	
				9:00-9:50		Th	A 207	
26	26	26		5:00-6:50		Th	A 102	
				4:00-4:50	M		A 207	
27	27	27		10:00-11:50	Tu		A 102	
				9:00-9:50		Th	A 207	
28	28	28		1:00-2:50	Tu		A 102	
				11:00-11:50		Th	A 207	
29	29	29		3:00-4:50	Tu		A 102	
				7:35-8:25 pm		Th	A 207	
30	30	30		1:00-2:50		Th	A 102	
				11:00-11:50		F	A 207	
31	31	31		3:00-4:50		Th	A 102	
				11:00-11:50		S	A 207	
32	32	32		3:00-4:50		F	A 102	
				9:00-9:50	Tu		A 207	
33	33	33		5:00-6:50	Tu		A 106	
				11:00-11:50		W	A 207	
34	34	34		5:00-6:50		Th	A 106	
				7:35-8:25 pm	M		A 207	
35	35	35		7:35-9:15 pm		Th	A 106	
				2:00-2:50	Tu		A 207	
36	36	36		5:00-6:50		W	A 106	
				7:35-8:25 pm	Tu		A 207	
37	37	37		7:35-9:15 pm	Tu		A 106	
				2:00-2:50		W	A 207	
38	38	38		5:00-6:50		Th	A 102	
				9:00-9:50		F	A 207	
39	39	39		7:35-9:15 pm	M		A 106	
				2:00-2:50		Th	A 207	
40	40	40		5:00-6:50	M		A 106	
				2:00-2:50		Th	A 207	
41	41	41		4:00-4:50	M	W	F L 171	Magnus
				4:00-4:50	M	W	F L 151	

Course No.	Hours		Descriptive Title	Days	Place	Prerequisite Instructor
	Fall	Winter Spring				
102-3	Problems of Moral Decision					
1		11:00-11:50	M	Th	L 161	Schilpp
		1:00-1:50		W	HEc 202	
2		11:00-11:50	M	Th	L 161	Schilpp
		2:00-2:50		W	HEc 118	
3		11:00-11:50	M	Th	L 161	Schilpp
		3:00-3:50		W	HEc 120	
4		11:00-11:50	M	Th	L 161	Schilpp
		8:00-8:50		Th	HEc 208	
5		11:00-11:50	M	Th	L 161	Schilpp
		9:00-9:50		Th	HEc 208	
6		11:00-11:50	M	Th	L 161	Schilpp
		10:00-10:50		Th	HEc 202	
7		11:00-11:50	M	Th	L 161	Schilpp
		11:00-11:50		F	HEc 202	
8		11:00-11:50	M	Th	L 161	Schilpp
		12:00-12:50		Th	HEc 208	
9		11:00-11:50	M	Th	L 161	Schilpp
		1:00-1:50		Th	HEc 208	
10		11:00-11:50	M	Th	L 161	Schilpp
		2:00-2:50		Th	HEc 208	
11		11:00-11:50	M	Th	L 161	Schilpp
		3:00-3:50		Th	HEc 208	
12		11:00-11:50	M	Th	L 161	Schilpp
		8:00-8:50		F	HEc 202	
13		10:00-10:50	Tu	Th	L 151	
		11:00-11:50		Th	HEc 202	
14		10:00-10:50	Tu	Th	L 151	
		12:00-12:50		Th	HEc 202	
15		10:00-10:50	Tu	Th	L 151	
		1:00-1:50		Th	HEc 202	
16		10:00-10:50	Tu	Th	L 151	
		2:00-2:50		Th	HEc 120	
17		10:00-10:50	Tu	Th	L 151	
		3:00-3:50		Th	HEc 202	
18		10:00-10:50	Tu	Th	L 151	
		8:00-8:50		F	HEc 122	
19		10:00-10:50	Tu	Th	L 151	
		9:00-9:50		F	HEc 208	
20		10:00-10:50	Tu	Th	L 151	
		10:00-10:50		F	HEc 208	
21		10:00-10:50	Tu	Th	L 151	
		11:00-11:50		F	HEc 202	
22		10:00-10:50	Tu	Th	L 151	
		1:00-1:50		F	HEc 202	
23		10:00-10:50	Tu	Th	L 151	
		9:00-9:50		Tu	HEc 102	
24		10:00-10:50	Tu	Th	L 151	
		10:00-10:50	M		HEc 306	
25		11:00-11:50	Tu	Th	L 151	Moore
		1:00-1:50		Th	HEc 120	
26		11:00-11:50	Tu	Th	L 151	Moore
		2:00-2:50		Th	HEc 201	
27		11:00-11:50	Tu	Th	L 151	Moore
		3:00-3:50		Th	HEc 120	
28		11:00-11:50	Tu	Th	L 151	Moore
		8:00-8:50		F	M 303	
29		11:00-11:50	Tu	Th	L 151	Moore
		9:00-9:50		F	HEc 202	
30		11:00-11:50	Tu	Th	L 151	Moore
		10:00-10:50		F	HEc 202	
31		11:00-11:50	Tu	Th	L 151	Moore
		11:00-11:50		F	Comm 122	
32		11:00-11:50	Tu	Th	L 151	Moore
		12:00-12:50		F	HEc 202	
33		11:00-11:50	Tu	Th	L 151	Moore
		1:00-1:50		F	M 310	
34		11:00-11:50	Tu	Th	L 151	Moore
		2:00-2:50		F	HEc 202	
35		11:00-11:50	Tu	Th	L 151	Moore
		3:00-3:50		F	M 303	
36		11:00-11:50	Tu	Th	L 151	Moore
		9:00-9:50		Tu	HEc 201	
37		1:00-1:50	Tu	Th	L 161	Howie
		8:00-8:50	M		M 303	
38		1:00-1:50	Tu	Th	L 161	Howie
		9:00-9:50	M		HEc 208	

Course No.	Hours			Descriptive Title	Days		Place	Prerequisite Instructor
	Fall	Winter	Spring					
39				1:00-1:50	Tu	Th	L 161	Howie
				10:00-10:50	M		HEc 202	
40				1:00-1:50	Tu	Th	L 161	Howie
				11:00-11:50	M		HEc 202	
41				1:00-1:50	Tu	Th	L 161	Howie
				12:00-12:50	M		HEc 202	
42				1:00-1:50	Tu	Th	L 161	Howie
				1:00-1:50	M		HEc 202	
43				1:00-1:50	Tu	Th	L 161	Howie
				8:00-8:50	Tu		HEc 208	
44				1:00-1:50	Tu	Th	L 161	Howie
				9:00-9:50	Tu		HEc 208	
45				1:00-1:50	Tu	Th	L 161	Howie
				10:00-10:50	Tu		HEc 202	
46				1:00-1:50	Tu	Th	L 161	Howie
				11:00-11:50	Tu		HEc 202	
47				1:00-1:50	Tu	Th	L 161	Howie
				10:00-10:50	Tu		HEc 120	
48				1:00-1:50	Tu	Th	L 161	Howie
				11:00-11:50	Tu		HEc 201	
49				3:00-3:50	Tu	Th	L 151	Howie
				8:00-8:50	M		HEc 202	
50				3:00-3:50	Tu	Th	L 151	Howie
				9:00-9:50	M		HEc 202	
51				3:00-3:50	Tu	Th	L 151	Howie
				12:00-12:50	M		M 303	
52				3:00-3:50	Tu	Th	L 151	Howie
				2:00-2:50	M		M 307	
53				3:00-3:50	Tu	Th	L 151	Howie
				8:00-8:50	Tu		HEc 202	
54				3:00-3:50	Tu	Th	L 151	Howie
				12:00-12:50	Tu		HEc 208	
55				3:00-3:50	Tu	Th	L 151	Howie
				1:00-1:50	Tu		HEc 208	
56				3:00-3:50	Tu	Th	L 151	Howie
				2:00-2:50	Tu		HEc 208	
57				3:00-3:50	Tu	Th	L 151	Howie
				9:00-9:50	Tu		Wham 112	
58				3:00-3:50	Tu	Th	L 151	Howie
				10:00-10:50		F	HEc 122	
r59				7:35-8:25 pm	Tu	Th	L 151	
				6:00-6:50 pm	Tu		HEc 306	
r60				7:35-8:25 pm	Tu	Th	L 151	
				9:00-9:50	Tu		HEc 202	
r61				7:35-8:25 pm	Tu	Th	L 151	
				12:00-12:50	Tu		HEc 202	
r62				7:35-8:25 pm	Tu	Th	L 151	
				1:00-1:50	Tu		HEc 202	
r63				7:35-8:25 pm	Tu	Th	L 151	
				3:00-3:50	Tu		HEc 208	
r64				7:35-8:25 pm	Tu	Th	L 151	
				10:00-10:50		F	HEc 306	
r65				7:35-8:25 pm	Tu	Th	L 151	
				11:00-11:50		F	HEc 306	
r66				7:35-8:25 pm	Tu	Th	L 151	
				12:00-12:50		F	HEc 306	
r67				7:35-8:25 pm	Tu	Th	L 151	
				1:00-1:50		F	HEc 120	
r68				7:35-8:25 pm	Tu	Th	L 151	
				2:00-2:50		F	HEc 118	
69				10:00-10:50	M	W	L 231	McKeefery
				9:00-9:50		Th	HEc 202	
70				10:00-10:50	M	W	L 231	McKeefery
				10:00-10:50		Th	HEc 120	
71				10:00-10:50	M	W	L 231	McKeefery
				11:00-11:50		W	HEc 202	
72				10:00-10:50	M	W	L 231	McKeefery
				12:00-12:50		W	HEc 202	
1				11:00-11:50	M	W	Wham 105	Schilpp
				1:00-1:50		W	HEc 202	
2				11:00-11:50	M	W	Wham 105	Schilpp
				2:00-2:50		W	HEc 202	
3				11:00-11:50	M	W	Wham 105	Schilpp
				3:00-3:50		W	M 306A	
4				11:00-11:50	M	W	Wham 105	Schilpp
				8:00-8:50		Th	HEc 208	
5				11:00-11:50	M	W	Wham 105	Schilpp
				9:00-9:50		Th	HEc 208	



## 40 GENERAL STUDIES AREA C (GSC)

Course No.—Hours		Descriptive Title			Days	Place	Prerequisite Instructor
Fall	Winter Spring		Time				
102-3	Problems of Moral Decision						
	6	11:00-11:50	M	W		Wham 105	Schilpp
		10:00-10:50		Th		HEc 202	
	7	11:00-11:50	M	W		Wham 105	Schilpp
		11:00-11:50		Th		HEc 208	
	8	11:00-11:50	M	W		Wham 105	Schilpp
		12:00-12:50		Th		HEc 208	
	9	11:00-11:50	M	W		Wham 105	Schilpp
		1:00-1:50		Th		HEc 208	
	10	11:00-11:50	M	W		Wham 105	Schilpp
		2:00-2:50		Th		HEc 208	
	11	11:00-11:50	M	W		Wham 105	Schilpp
		3:00-3:50		Th		HEc 202	
	12	11:00-11:50	M	W		Wham 105	Schilpp
		8:00-8:50		F		HEc 303	
	13	10:00-10:50		Tu	Th	L 161	
		11:00-11:50			Th	M 305a	
	14	10:00-10:50		Tu	Th	L 161	
		12:00-12:50			Th	HEc 202	
	15	10:00-10:50		Tu	Th	L 161	
		1:00-1:50			Th	HEc 202	
	16	10:00-10:50		Tu	Th	L 161	
		2:00-2:50			Th	HEc 120	
	17	10:00-10:50		Tu	Th	L 161	
		3:00-3:50			Th	HEc 303	
	18	10:00-10:50		Tu	Th	L 161	
		8:00-8:50			F	HEc 202	
	19	10:00-10:50		Tu	Th	L 161	
		9:00-9:50			F	HEc 202	
	20	10:00-10:50		Tu	Th	L 161	
		10:00-10:50			F	HEc 208	
	21	10:00-10:50		Tu	Th	L 161	
		11:00-11:50			F	HEc 202	
	22	10:00-10:50		Tu	Th	L 161	
		1:00-1:50			F	HEc 202	
	23	10:00-10:50		Tu	Th	L 161	
		9:00-9:50		Tu		HEc 303	
	24	10:00-10:50		Tu	Th	L 161	
		10:00-10:50			S	HEc 208	
	25	11:00-11:50		Tu	Th	L 171	Clarke
		1:00-1:50			Th	HEc 104	
	26	11:00-11:50		Tu	Th	L 171	Clarke
		2:00-2:50			Th	HEc 202	
	27	11:00-11:50		Tu	Th	L 171	Clarke
		3:00-3:50			Th	HEc 201	
	28	11:00-11:50		Tu	Th	L 171	Clarke
		8:00-8:50			F	HEc 122	
	29	11:00-11:50		Tu	Th	L 171	Clarke
		9:00-9:50			F	HEc 303	
	30	11:00-11:50		Tu	Th	L 171	Clarke
		10:00-10:50			F	HEc 202	
	31	11:00-11:50		Tu	Th	L 171	Clarke
		11:00-11:50			F	HEc 306	
	32	11:00-11:50		Tu	Th	L 171	Clarke
		12:00-12:50			F	HEc 202	
	33	11:00-11:50		Tu	Th	L 171	Clarke
		1:00-1:50			F	M 307	
	34	11:00-11:50		Tu	Th	L 171	Clarke
		2:00-2:50			F	HEc 202	
	35	11:00-11:50		Tu	Th	L 171	Clarke
		3:00-3:50			F	M 303	
	36	11:00-11:50		Tu	Th	L 171	Clarke
		9:00-9:50		Tu		HEc 201	
	37	1:00-1:50		Tu	Th	L 141	Howie
		8:00-8:50	M			HEc 202	
	38	1:00-1:50		Tu	Th	L 141	Howie
		9:00-9:50	M			HEc 202	
	39	1:00-1:50		Tu	Th	L 141	Howie
		10:00-10:50	M			HEc 202	
	40	1:00-1:50		Tu	Th	L 141	Howie
		11:00-11:50	M			HEc 208	
	41	1:00-1:50		Tu	Th	L 141	Howie
		12:00-12:50	M			HEc 202	
	42	1:00-1:50		Tu	Th	L 141	Howie
		1:00-1:50	M			HEc 202	
	43	1:00-1:50		Tu	Th	L 141	Howie
		8:00-8:50		Tu		HEc 208	

Course No.—Hours	Descriptive Title	Days		Place	Prerequisite Instructor
		Fall	Winter		
44	1:00–1:50			Tu Th L 141	Howie
	9:00–9:50			Tu HEc 208	
45	1:00–1:50			Tu Th L 141	Howie
	10:00–10:50			Tu HEc 202	
46	1:00–1:50			Tu Th L 141	Howie
	11:00–11:50			Tu HEc 202	
47	1:00–1:50			Tu Th L 141	Howie
	10:00–10:50			Tu HEc 118	
48	1:00–1:50			Tu Th L 141	Howie
	11:00–11:50			Tu HEc 208	
49	3:00–3:50			Tu Th L 141	Kelly
	8:00–8:50	M		HEc 203	
50	3:00–3:50			Tu Th L 141	Kelly
	9:00–9:50	M		HEc 203	
51	3:00–3:50			Tu Th L 141	Kelly
	12:00–12:50	M		HEc 306	
52	3:00–3:50			Tu Th L 141	Kelly
	2:00–2:50	M		HEc 202	
53	3:00–3:50			Tu Th L 141	Kelly
	8:00–8:50	Tu		HEc 202	
54	3:00–3:50			Tu Th L 141	Kelly
	12:00–12:50	Tu		HEc 208	
55	3:00–3:50			Tu Th L 141	Kelly
	1:00–1:50	Tu		HEc 208	
56	3:00–3:50			Tu Th L 141	Kelly
	2:00–2:50	Tu		HEc 208	
57	3:00–3:50			Tu Th L 141	Kelly
	9:00–9:50	Tu		HEc 206	
58	3:00–3:50			Tu Th L 141	Kelly
	10:00–10:50			F HEc 303	
τ59	7:35–8:25 pm			Tu Th L 141	
	6:00–6:50 pm	Tu		HEc 118	
τ60	7:35–8:25 pm			Tu Th L 141	
	9:00–9:50	Tu		HEc 202	
τ61	7:35–8:25 pm			Tu Th L 141	
	12:00–12:50	Tu		HEc 202	
τ62	7:35–8:25 pm			Tu Th L 141	
	1:00–1:50	Tu		HEc 202	
τ63	7:35–8:25 pm			Tu Th L 141	
	3:00–3:50	Tu		HEc 202	
τ64	7:35–8:25 pm			Tu Th L 141	
	10:00–10:50			F HEc 306	
τ65	7:35–8:25 pm			Tu Th L 141	
	11:00–11:50			F HEc 208	
τ66	7:35–8:25 pm			Tu Th L 141	
	12:00–12:50			F HEc 306	
τ67	7:35–8:25 pm			Tu Th L 141	
	1:00–1:50			F M 102	
τ68	7:35–8:25 pm			Tu Th L 141	
	2:00–2:50			F M 201	
69	10:00–10:50	M	W	L 231	McKeefery
	9:00–9:50		Th	HEc 202	
70	10:00–10:50	M	W	L 231	McKeefery
	10:00–10:50		Th	M 303	
71	10:00–10:50	M	W	L 231	McKeefery
	11:00–11:50		W	HEc 208	
72	10:00–10:50	M	W	L 231	McKeefery
	12:00–12:50		W	HEc 202	
1	11:00–11:50	M	W	L 161	Schilpp
	1:00–1:50		W	HEc 202	
2	11:00–11:50	M	W	L 161	Schilpp
	2:00–2:50		W	HEc 122	
3	11:00–11:50	M	W	L 161	Schilpp
	3:00–3:50		W	HEc 208	
4	11:00–11:50	M	W	L 161	Schilpp
	8:00–8:50		Th	HEc 208	
5	11:00–11:50	M	W	L 161	Schilpp
	9:00–9:50		Th	HEc 202	
6	11:00–11:50	M	W	L 161	Schilpp
	10:00–10:50		Th	HEc 208	
7	11:00–11:50	M	W	L 161	Schilpp
	11:00–11:50		Th	HEc 208	
8	11:00–11:50	M	W	L 161	Schilpp
	12:00–12:50		Th	HEc 208	
9	11:00–11:50	M	W	L 161	Schilpp
	1:00–1:50		Th	HEc 208	
10	11:00–11:50	M	W	L 161	Schilpp
	2:00–2:30		Th	HEc 208	

## 42 GENERAL STUDIES AREA C (GSC)

Course No.—Hours		Descriptive Title				Prerequisite	
Fall	Winter	Spring	Time	Days	Place	Instructor	
<b>102-3 Problems of Moral Decision</b>							
		11	11:00-11:50	M W	L 161	Schilpp	
			3:00-3:50	Th	HEc 208		
		12	11:00-11:50	M W	L 161	Schilpp	
			8:00-8:50	F	Ag 116		
		13	9:00-9:50	Tu Th	L 171	McClure	
			11:00-11:50	Th	HEc 202		
		14	9:00-9:50	Tu Th	L 171	McClure	
			12:00-12:50	Th	HEc 202		
		15	9:00-9:50	Tu Th	L 171	McClure	
			1:00-1:50	Th	HEc 202		
		16	9:00-9:50	Tu Th	L 171	McClure	
			2:00-2:50	Th	HEc 203		
		17	9:00-9:50	Tu Th	L 171	McClure	
			3:00-3:50	Th	HEc 202		
		18	9:00-9:50	Tu Th	L 171	McClure	
			8:00-8:50	F	HEc 202		
		19	9:00-9:50	Tu Th	L 171	McClure	
			9:00-9:50	F	HEc 208		
		20	9:00-9:50	Tu Th	L 171	McClure	
			10:00-10:50	F	HEc 202		
		21	9:00-9:50	Tu Th	L 171	McClure	
			11:00-11:50	F	Ag 116		
		22	9:00-9:50	Tu Th	L 171	McClure	
			1:00-1:50	F	HEc 202		
		23	9:00-9:50	Tu Th	L 171	McClure	
			9:00-9:50	F	Wh 107		
		24	9:00-9:50	Tu Th	L 171	McClure	
			10:00-10:50	Th	M 102a		
		25	10:00-10:50	Tu Th	L 141	Flynn	
			1:00-1:50	Th	Ag 116		
		26	10:00-10:50	Tu Th	L 141	Flynn	
			2:00-2:50	Th	HEc 206		
		27	10:00-10:50	Tu Th	L 141	Flynn	
			3:00-3:50	Th	HEc 104		
		28	10:00-10:50	Tu Th	L 141	Flynn	
			8:00-8:50	F	HEc 102		
		29	10:00-10:50	Tu Th	L 141	Flynn	
			9:00-9:50	F	HEc 202		
		30	10:00-10:50	Tu Th	L 141	Flynn	
			10:00-10:50	F	HEc 203		
		31	10:00-10:50	Tu Th	L 141	Flynn	
			11:00-11:50	F	HEc 202		
		32	10:00-10:50	Tu Th	L 141	Flynn	
			12:00-12:50	F	HEc 202		
		33	10:00-10:50	Tu Th	L 141	Flynn	
			1:00-1:50	F	Ag 116		
		34	10:00-10:50	Tu Th	L 141	Flynn	
			2:00-2:50	F	HEc 202		
		35	10:00-10:50	Tu Th	L 141	Flynn	
			3:00-3:50	F	HEc 208		
		36	10:00-10:50	Tu Th	L 141	Flynn	
			9:00-9:50	Tu	HEc 206		
		37	1:00-1:50	Tu Th	L 141	Howie	
			8:00-8:50	M	HEc 202		
		38	1:00-1:50	Tu Th	L 141	Howie	
			9:00-9:50	M	HEc 202		
		39	1:00-1:50	Tu Th	L 141	Howie	
			10:00-10:50	M	Ag 148		
		40	1:00-1:50	Tu Th	L 141	Howie	
			11:00-11:50	M	HEc 202		
		41	1:00-1:50	Tu Th	L 141	Howie	
			12:00-12:50	M	HEc 202		
		42	1:00-1:50	Tu Th	L 141	Howie	
			1:00-1:50	M	HEc 202		
		43	1:00-1:50	Tu Th	L 141	Howie	
			8:00-8:50	Tu	HEc 208		
		44	1:00-1:50	Tu Th	L 141	Howie	
			9:00-9:50	Tu	HEc 202		
		45	1:00-1:50	Tu Th	L 141	Howie	
			10:00-10:50	Tu	HEc 208		
		46	1:00-1:50	Tu Th	L 141	Howie	
			11:00-11:50	Tu	HEc 202		
		47	1:00-1:50	Tu Th	L 141	Howie	
			10:00-10:50	S	HEc 202		
		48	1:00-1:50	Tu Th	L 141	Howie	
			11:00-11:50	Tu	HEc 208		



Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor
Fall	Winter		Spring	Time		
		49	3:00-3:50	Tu Th	L 141	Kelly
			8:00-8:50	M	HEc 203	
		50	3:00-3:50	Tu Th	L 141	Kelly
			9:00-9:50	M	HEc 102	
		51	3:00-3:50	Tu Th	L 141	Kelly
			12:00-12:50	M	HEc 306	
		52	3:00-3:50	Tu Th	L 141	Kelly
			2:00-2:50	M	HEc 306	
		53	3:00-3:50	Tu Th	L 141	Kelly
			8:00-8:50	Tu	HEc 202	
		54	3:00-3:50	Tu Th	L 141	Kelly
			12:00-12:50	Tu	HEc 208	
		55	3:00-3:50	Tu Th	L 141	Kelly
			1:00-1:50	Tu	HEc 208	
		56	3:00-3:50	Tu Th	L 141	Kelly
			2:00-2:50	Tu	HEc 208	
		57	3:00-3:50	Tu Th	L 141	Kelly
			9:00-9:50	F	HEc 303	
		58	3:00-3:50	Tu Th	L 141	Kelly
			10:00-10:50	Tu	HEc 303	
	r59	7:35-8:25 pm	Tu Th	L 141		Eames
		6:00-6:50	Tu	HEc 303		
	r60	7:35-8:25 pm	Tu Th	L 141		Eames
		9:00-9:50	Tu	HEc 306		
	r61	7:35-8:25 pm	Tu Th	L 141		Eames
		12:00-12:50	Tu	HEc 202		
	r62	7:35-8:25 pm	Tu Th	L 141		Eames
		1:00-1:50	Tu	HEc 202		
	r63	7:35-8:25 pm	Tu Th	L 141		Eames
		3:00-3:50	Tu	HEc 208		
	r64	7:35-8:25 pm	Tu Th	L 141		Eames
		10:00-10:50	F	M 102		
	r65	7:35-8:25 pm	Tu Th	L 141		Eames
		11:00-11:50	F	HEc 120		
	r66	7:35-8:25 pm	Tu Th	L 141		Eames
		12:00-12:50	F	M 206		
	r67	7:35-8:25 pm	Tu Th	L 141		Eames
		1:00-1:50	F	HEc 303		
	r68	7:35-8:25 pm	Tu Th	L 141		Eames
		2:00-2:50	F	M 207		
	69	10:00-10:50	M W	L 231		McKeefery
		9:00-9:50	Th	M 209		
	70	10:00-10:50	M W	L 231		McKeefery
		10:00-10:50	Th	HEc 303		
	71	10:00-10:50	M W	L 231		McKeefery
		11:00-11:50	W	M 309		
	72	10:00-10:50	M W	L 231		McKeefery
		12:00-12:50	W	HEc 202		
103-3 World Literature for Composition						GSD 102 or appropriate ACT percentile
1		8:00-8:50	M W F	M 305		
	1	8:00-8:50	M W F	Felts 130		
		8:00-8:50	M W F	Felts 130		
2		8:00-8:50	Tu Th	M 305		
		8:00-8:50	M	M 303		
	2	8:00-8:50	Tu Th	Felts 130		
		8:00-8:50	W	Comm 114		
		8:00-8:50	Tu Th	Felts 130		
		8:00-8:50	F	Comm 122		
3		8:00-8:50	M W F	M 310		
	3	8:00-8:50	M W F	Warren 129		
		8:00-8:50	M W F	Warren 129		
4		8:00-8:50	Tu Th	M 310		
		8:00-8:50	F	Wh 107		
	4	8:00-8:50	Tu Th	Warren 129		
		8:00-8:50	F	Comm 114		
		8:00-8:50	Tu Th	Warren 129		
		8:00-8:50	W	Comm 122		
5		9:00-9:50	M W F	M 305		
	5	8:00-8:50	M W F	M 306		
		8:00-8:50	M W F	M 306		
6		9:00-9:50	Tu Th	M 305		
		9:00-9:50	F	M 301		
	6	8:00-8:50	Tu Th	M 306		
		8:00-8:50	F	M 215		
		8:00-8:50	Tu Th	M 306		
		8:00-8:50	W	M 215		
		9:00-9:50	W S	M 203		

## 44 GENERAL STUDIES AREA C (GSC)

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall Winter Spring	Time			

103-3 World Literature for Composition				GSD 102 or appropriate ACT percentile	
7		9:00-9:50	F	M 206	
	7	9:00-9:50	M W F	Felts 130	
		8:00-8:50	M W F	Ag 150	
8		9:00-9:50	W S	Wham 312	
		9:00-9:50	F	M 102	
	8	9:00-9:50	Tu Th	Felts 130	
		9:00-9:50	F	Comm 116	
		8:00-8:50	Tu Th	Ag 150	
		8:00-8:50	F	Ag 154	
9		10:00-10:50	M W F	M 305	
	9	9:00-9:50	M W F	Warren 129	
		8:00-8:50	M W F	Gym 203	
10		10:00-10:50	Tu Th	M 305	
		10:00-10:50	M	M 207	
	10	9:00-9:50	Tu Th	Warren 129	
		9:00-9:50	F	Comm 118	
		8:00-8:50	Tu Th	Gym 203	
		8:00-8:50	W	HEc 303	
11		10:00-10:50	M W F	M 309	
	11	9:00-9:50	M W F	M 306	
		8:00-8:50	M W F	M 305	
12		10:00-10:50	Tu Th	M 309	
		10:00-10:50	F	M 302	
	12	9:00-9:50	Tu Th S	M 306	
		8:00-8:50	Tu Th	M 305	
		8:00-8:50	F	M 215	
13		11:00-11:50	M W F	M 305	
	13	10:00-10:50	M W F	Felts 130	
		8:00-8:50	M W F	M 307	
14		11:00-11:50	Tu Th	M 305	
		11:00-11:50	F	Comm 120	
	14	10:00-10:50	Tu Th	Felts 130	
		10:00-10:50	W	Comm 116	
		8:00-8:50	Tu Th	M 307	
		8:00-8:50	M	M 305a	
15		11:00-11:50	M W F	M 309	
	15	10:00-10:50	M W F	Warren 129	
		8:00-8:50	Tu Th	M 203	
		8:00-8:50	M	M 207	
16		12:00-12:50	Tu F	Ag 150	
		12:00-12:50	W	M 203b	
	16	10:00-10:50	Tu Th	Warren 129	
		10:00-10:50	F	Comm 122	
		9:00-9:50	M W F	Felts 130	
17		12:00-12:50	M W F	Wham 312	
	17	10:00-10:50	M W F	M 306	
		9:00-9:50	Tu Th	Felts 130	
		9:00-9:50	F	Comm 118	
18		12:00-12:50	Tu Th	Wham 312	
		12:00-12:50	F	M 310	
	18	10:00-10:50	Tu Th	M 306	
		10:00-10:50	F	P 309	
		9:00-9:50	M W F	Warren 129	
19		1:00-1:50	M WTh	Wham 312	
	19	11:00-11:50	M W F	Felts 130	
		9:00-9:50	Tu Th	Warren 129	
		9:00-9:50	F	Comm 116	
20		1:00-1:50	Tu F	Wham 312	
		1:00-1:50	W	M 307	
	20	11:00-11:50	Tu Th	Felts 130	
		11:00-11:50	F	Comm 114	
		9:00-9:50	M W F	M 306	
21		1:00-1:50	MTu Th	M 307	
	21	11:00-11:50	M W F	Warren 129	
		9:00-9:50	Tu Th	M 306	
		9:00-9:50	F	HEc 102	
22		2:00-2:50	M WTh	Wham 312	
	22	11:00-11:50	Tu Th	Warren 129	
		11:00-11:50	W	Comm 116	
		9:00-9:50	M W F	Ag 150	
23		2:00-2:50	Tu F	Wham 312	
		2:00-2:50	W	M 307	
	23	11:00-11:50	M W F	M 306	
		9:00-9:50	Tu Th	Ag 150	
		9:00-9:50	F	Ag 116	

Course No.—Hours		Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
24		2:00–2:50	Tu Th	M 203	
		2:00–2:50	F	M 307	
	24	11:00–11:50	Tu Th	M 306	
		11:00–11:50	W	P 309	
	24	9:00–9:50	M W F	Gym 203	
25		3:00–3:50	M WTh	Wham 312	
	25	12:00–12:50	M W F	Felts 130	
	25	9:00–9:50	Tu Th	Gym 203	
		9:00–9:50	F	Gym 204	
26		3:00–3:50	Tu F	Wham 312	
		3:00–3:50	W	Wham 321	
	26	12:00–12:50	Tu Th	Felts 130	
		12:00–12:50	F	Warren 129	
	26	9:00–9:50	M W F	M 305	
27		3:00–3:50	Tu F	Ag 150	
		3:00–3:50	W	M 306a	
	27	12:00–12:50	MTu Th	Warren 129	
	27	9:00–9:50	Tu Th	M 305	
		9:00–9:50	W	M 302	
28		4:00–4:50	M WTh	Wham 312	
	28	12:00–12:50	MTu Th	Gym 203	
	28	9:00–9:50	M W F	M 307	
29		4:00–4:50	Tu F	Wham 312	
		4:00–4:50	W	Wham 321	
	29	12:00–12:50	Tu F	Gym 203	
		12:00–12:50	W	HEc 122	
	29	9:00–9:50	Tu Th	M 307	
		9:00–9:50	F	HEc 106	
30		4:00–4:50	Tu F	Ag 150	
		4:00–4:50	W	M 306a	
	30	12:00–12:50	M W F	M 306	
	30	9:00–9:50	MTu Th	M 203b	
31		6:00–7:15 pm	M W	M 305	
	31	1:00–1:50	M W F	Felts 130	
	31	10:00–10:50	M W F	Felts 130	
32		6:00–7:15 pm	Tu Th	M 305	
	32	1:00–1:50	Tu Th	Felts 130	
		1:00–1:50	F	Warren 129	
	32	10:00–10:50	Tu Th	Felts 130	
		10:00–10:50	F	Pierce 129	
33		6:00–7:15 pm	Tu Th	M 306a	
	33	1:00–1:50	MTu Th	Warren 129	
	33	10:00–10:50	M W F	Warren 129	
34		7:35–8:50 pm	M W	M 305	
	34	1:00–1:50	M WTh	Gym 203	
	34	10:00–10:50	Tu Th	Warren 129	
		10:00–10:50	F	Arena 123	
35		7:35–8:50 pm	Tu Th	M 305	
	35	1:00–1:50	Tu F	Gym 203	
		1:00–1:50	W	HEc 122	
	35	10:00–10:50	M W F	M 306	
36		7:35–8:50 pm	Tu Th	M 306a	
	36	2:00–2:50	M W F	Felts 130	
	36	10:00–10:50	Tu Th	M 306	
		10:00–10:50	W	M 310	
	37	2:00–2:50	Tu Th	Felts 130	
		2:00–2:50	F	Warren 129	
	37	10:00–10:50	M W F	Ag 150	
38		2:00–2:50	MTu Th	Warren 129	
	38	10:00–10:50	Tu Th	Ag 150	
		10:00–10:50	W	Ag 148	
39		2:00–2:50	M WTh	Gym 203	
	39	10:00–10:50	M W F	Gym 203	
40		2:00–2:50	ThF	M 102	
		2:00–2:50	W	HEc 122	
	40	10:00–10:50	Tu Th	Gym 203	
		10:00–10:50	M	HEc 203	
41		3:00–3:50	M W F	Felts 130	
	41	10:00–10:50	M W F	M 305	
42		3:00–3:50	Tu Th	Felts 130	
		3:00–3:50	F	Warren 129	
	42	10:00–10:50	Tu Th	M 305	
		10:00–10:50	W	M 309	
43		3:00–3:50	MTu Th	Warren 129	
	43	10:00–10:50	M W F	M 307	
44		3:00–3:50	M WTh	Gym 203	
	44	10:00–10:50	Tu Th	M 307	
		10:00–10:50	W	HEc 122	



## 46 GENERAL STUDIES AREA C (GSC)

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall Winter Spring Time				

103-3 World Literature for Composition				GSD 102 or appropriate ACT percentile	
45	3:00-3:50	Tu F	Gym 203		
	3:00-3:50	W	HEc 122		
45	10:00-10:50	Tu Th	M 203		
	10:00-10:50	F	M 102a		
46	4:00-4:50	M W F	Felts 130		
46	11:00-11:50	M W F	Felts 130		
47	4:00-4:50	Tu Th	Felts 130		
	4:00-4:50	F	Warren 129		
47	11:00-11:50	Tu Th	Felts 130		
	11:00-11:50	F	Comm 120		
48	4:00-4:50	MTu Th	Warren 129		
48	11:00-11:50	M W F	Warren 129		
49	4:00-4:50	M WTh	Gym 203		
49	11:00-11:50	Tu Th	Warren 129		
	11:00-11:50	W	Comm 116		
50	4:00-4:50	Tu F	Gym 203		
	4:00-4:50	W	HEc 122		
50	11:00-11:50	M W F	M 306		
51	6:00-7:15 pm	M W	M 306		
51	11:00-11:50	Tu Th	M 306		
	11:00-11:50	F	Wh 107		
52	6:00-7:15 pm	Tu Th	M 306		
52	11:00-11:50	M W F	Ag 150		
53	6:00-7:15 pm	M W	M 305		
53	11:00-11:50	Tu Th	Ag 150		
	11:00-11:50	F	Ag 220		
54	6:00-7:15 pm	Tu Th	M 305		
54	11:00-11:50	M W F	Gym 203		
55	6:00-7:15 pm	M W	M 307		
55	11:00-11:50	Tu Th	Gym 203		
	11:00-11:50	W	HEc 122		
56	7:35-8:50 pm	M W	M 306		
56	11:00-11:50	M W F	M 305		
57	7:35-8:50 pm	Tu Th	M 306		
57	11:00-11:50	Tu Th S	M 305		
58	7:35-8:50 pm	M W	M 305		
58	11:00-11:50	M W F	M 307		
59	7:35-8:50 pm	Tu Th	M 305		
59	11:00-11:50	Tu Th S	M 307		
60	7:35-8:50 pm	M W	M 307		
60	11:00-11:50	M W F	Wham 312		
61	12:00-12:50	M W F	Felts 130		
62	12:00-12:50	Tu Th	Felts 130		
	12:00-12:50	F	Warren 129		
63	12:00-12:50	MTu Th	Warren 129		
64	12:00-12:50	M WTh	Gym 203		
65	12:00-12:50	M W F	M 306		
66	12:00-12:50	Tu Th	M 306		
	12:00-12:50	F	Ag 150		
67	12:00-12:50	Tu F	Gym 203		
	12:00-12:50	W	Ag 150		
68	12:00-12:50	MTu Th	Ag 150		
69	12:00-12:50	M W F	M 310		
70	12:00-12:50	Tu Th	M 310		
	12:00-12:50	F	M 305		
71	12:00-12:50	M WTh	M 307		
72	12:00-12:50	Tu F	M 307		
	12:00-12:50	W	M 309		
73	12:00-12:50	MTu Th	M 306a		
74	12:00-12:50	M WTh	M 305		
75	12:00-12:50	M W F	M 209		
76	1:00-1:50	M W F	Felts 130		
77	1:00-1:50	Tu Th	Felts 130		
	1:00-1:50	F	Warren 129		
78	1:00-1:50	MTu Th	Warren 129		
79	1:00-1:50	M WTh	Gym 203		
80	1:00-1:50	M W F	M 306		
81	1:00-1:50	Tu Th	M 306		
	1:00-1:50	F	Ag 150		
82	1:00-1:50	Tu F	Gym 203		
	1:00-1:50	W	Ag 150		
83	1:00-1:50	MTu Th	Ag 150		
84	1:00-1:50	M W F	M 310		
85	1:00-1:50	Tu Th	M 310		
	1:00-1:50	F	M 305		
86	1:00-1:50	M WTh	M 307		

Course No.—Hours	Descriptive Title	Days		Place	Prerequisite Instructor
		Fall	Winter		
87	1:00-1:50			Tu F M 307	
	1:00-1:50			W M 309	
88	1:00-1:50			MTu Th M 306a	
89	1:00-1:50			M WTh M 305	
90	1:00-1:50			Tu Th M 308	
	1:00-1:50			F M 306a	
91	2:00-2:50			M W F Felts 130	
92	2:00-2:50			Tu Th Felts 130	
	2:00-2:50			F Warren 129	
93	2:00-2:50			MTu Th Warren 129	
94	2:00-2:50			M WTh Gym 203	
95	2:00-2:50			M W F M 306	
96	2:00-2:50			Tu Th M 306	
	2:00-2:50			F Ag 150	
97	2:00-2:50			Tu F Gym 203	
	2:00-2:50			W Ag 150	
98	2:00-2:50			MTu Th Ag 150	
99	2:00-2:50			M W F M 310	
100	2:00-2:50			Tu Th M 310	
	2:00-2:50			F M 305	
101	2:00-2:50			M WTh M 307	
102	2:00-2:50			Tu F M 307	
	2:00-2:50			W M 309	
103	2:00-2:50			MTu Th M 306a	
104	2:00-2:50			M WTh M 305	
105	3:00-3:50			M W F Felts 130	
106	3:00-3:50			Tu Th Felts 130	
	3:00-3:50			F Warren 129	
107	3:00-3:50			MTu Th Warren 129	
108	3:00-3:50			M WTh Gym 203	
109	3:00-3:50			M W F M 306	
110	3:00-3:50			Tu Th M 306	
	3:00-3:50			F Ag 150	
111	3:00-3:50			Tu F Gym 203	
	3:00-3:50			W Ag 150	
112	3:00-3:50			MTu Th Ag 150	
113	3:00-3:50			M W F M 310	
114	3:00-3:50			Tu Th M 310	
	3:00-3:50			F M 305	
115	3:00-3:50			M WTh M 307	
116	3:00-3:50			Tu F M 307	
	3:00-3:50			W M 309	
117	3:00-3:50			MTu Th M 306a	
118	3:00-3:50			M WTh M 305	
119	4:00-4:50			M W F Felts 130	
120	4:00-4:50			Tu Th Felts 130	
	4:00-4:50			F Warren 129	
121	4:00-4:50			MTu Th Warren 129	
122	4:00-4:50			M WTh Gym 203	
123	4:00-4:50			M W F M 306	
124	4:00-4:50			Tu Th M 306	
	4:00-4:50			F Ag 150	
125	4:00-4:50			Tu F Gym 203	
	4:00-4:50			W Ag 150	
126	4:00-4:50			MTu Th Ag 150	
127	4:00-4:50			M W F M 310	
128	4:00-4:50			Tu Th M 310	
	4:00-4:50			F M 305	
129	4:00-4:50			M WTh M 307	
130	4:00-4:50			Tu F M 307	
	4:00-4:50			W M 309	
131	4:00-4:50			MTu Th M 306a	
132	4:00-4:50			M WTh M 305	
133	6:00-7:15 pm			M W M 305	
134	6:00-7:15 pm			Tu Th M 305	
135	6:00-7:15 pm			M W M 307	
136	6:00-7:15 pm			Tu Th M 307	
137	6:00-7:15 pm			M W M 309	
138	6:00-7:15 pm			Tu Th M 309	
139	6:00-7:15 pm			M W M 310	
140	6:00-7:15 pm			Tu Th M 310	
141	6:00-7:15 pm			M W M 306a	
142	6:00-7:15 pm			Tu Th M 306a	
143	6:00-7:15 pm			M W M 203b	
144	6:00-7:15 pm			Tu Th M 203b	
145	6:00-7:15 pm			M W M 306	
146	6:00-7:15 pm			Tu Th M 306	

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>103-3 World Literature for Composition</b>						<b>GSD 102 or appropriate ACT percentile</b>	
			147 7:35-8:50 pm	M	W	M 305	
			148 7:35-8:50 pm	Tu	Th	M 305	
			149 7:35-8:50 pm	M	W	M 307	
			150 7:35-8:50 pm	Tu	Th	M 307	
			151 7:35-8:50 pm	M	W	M 309	
			152 7:35-8:50 pm	Tu	Th	M 309	
			153 7:35-8:50 pm	M	W	M 310	
			154 7:35-8:50 pm	Tu	Th	M 310	
			155 7:35-8:50 pm	M	W	M 306a	
			156 7:35-8:50 pm	Tu	Th	M 306a	
			157 7:35-8:50 pm	M	W	M 203b	
			158 7:35-8:50 pm	Tu	Th	M 203b	
			159 7:35-8:50 pm	M	W	M 306	
			160 7:35-8:50 pm	Tu	Th	M 306	
<b>110a-3 Introduction to Western Humanities</b>							
1			10:00-10:50	M	W	F	Wham 105 Plochmann
<b>110b-3 Introduction to Western Humanities</b>							<b>110a</b>
1			10:00-10:50	M	W	F	Wham 105 Plochmann
<b>110c-3 Introduction to Western Humanities</b>							<b>110b</b>
1			10:00-10:50	M	W	F	Wham 105 Plochmann
<b>200-3 Oral Interpretation of Literature</b>							
1	1	1	8:00-8:50	MTuWTh			Comm 118
<b>200-4 Oral Interpretation of Literature</b>							
2			9:00-9:50	MTuW	F		Comm 118
<b>200-4 Oral Interpretation of Literature</b>							
	2		12:00-12:50	MTuW	F		Comm 214
		2	11:00-11:50	MTuW	F		Comm 118
3		3	10:00-10:50	TuWThF			Comm 118
	3		4:00-4:50	TuWThF			Comm 116
<b>200-4 Oral Interpretation of Literature</b>							
4	4	4	12:00-12:50	MTuW	F		Comm 118
<b>200-3 Oral Interpretation of Literature</b>							
5			1:00-1:50	MTuWTh			Comm 118
	5		1:00-1:50	MTuWTh			Comm 116
		5	1:00-1:50	MTu	ThF		Comm 214
<b>200-4 Oral Interpretation of Literature</b>							
6			2:00-2:50	TuWThF			Comm 118
<b>200-3 Oral Interpretation of Literature</b>							
	6		7:35-9:15 pm	M	W		Comm 116
		6	8:00-8:50	TuWThF			Comm 116
7			3:00-3:50	MTuWTh			Comm 118
	7		7:35-9:15 pm	Tu	Th		Comm 214
		7	12:00-12:50	MTuWTh			Comm 114
<b>200-4 Oral Interpretation of Literature</b>							
8			12:00-12:50	MTuWTh			Comm 214
	8		12:00-12:50	MTuWTh			Ag 222
		8	12:00-12:50	MTuWTh			Wham 305
<b>200-3 Oral Interpretation of Literature</b>							
9	9	9	4:00-4:50	MTuWTh			Comm 118
<b>200-4 Oral Interpretation of Literature</b>							
10			1:00-2:50	Tu	Th		Wham 137
	10		3:00-4:50	Tu	Th		Ag 222
		10	1:00-2:50	Tu	Th		Wham 305
<b>200-3 Oral Interpretation of Literature</b>							
11	11	11	7:35-9:00 pm	Tu	Th		Comm 118
<b>200-4 Oral Interpretation of Literature</b>							
12	12	12	7:35-9:00 pm	M	W		Comm 118
<b>201-3 Introduction to Drama</b>							<b>103</b>
1	1	1	8:00-8:50	M	W	F	Wham 303
2		2	9:00-9:50	Tu	Th		Wham 303
			9:00-9:50			F	Wham 206
	2		9:00-9:50	Tu	Th		Wham 303
			9:00-9:50			W	Wham 319
3	3	3	10:00-10:50	M	W	F	Wham 303
4		4	11:00-11:50	Tu	Th		Wham 303
			11:00-11:50			F	Wham 206
	4		11:00-11:50	Tu	Th		Wham 303
			11:00-11:50			F	Wham 312
5	5	5	12:00-12:50	M	W	F	Wham 303
6	6	6	1:00-1:50	M	W	F	Wham 303
7	7	7	2:00-2:50	M	W	F	Wham 303
8	8	8	3:00-3:50	M	W	F	Wham 303
9	9	9	4:00-4:50	M	W	F	Wham 303
10	10	10	6:00-7:15 pm	M	W		Wham 303



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
202-3	Introduction to Poetry						103
1		1	8:00-8:50	Tu	Th	Wham 303	
			8:00-8:50		F	Wham 206	
	1		8:00-8:50	Tu	Th	Wham 303	
			8:00-8:50		F	Wham 308	
2	2	2	9:00-9:50	M	W	F	Wham 303
3		3	10:00-10:50	Tu	Th	Wham 303	
			10:00-10:50		F	Wham 206	
	3		10:00-10:50	Tu	Th	Wham 303	
			10:00-10:50		W	Wham 312	
4	4	4	11:00-11:50	M	W	F	Wham 303
5	5	5	12:00-12:50	M			Wham 307
			12:00-12:50	Tu	Th	Wham 303	
6	6	6	1:00-1:50	M			Wham 307
			1:00-1:50	Tu	Th	Wham 303	
7	7	7	2:00-2:50	M			Wham 307
			2:00-2:50	Tu	Th	Wham 303	
8	8	8	3:00-3:50	M			Wham 307
			3:00-3:50	Tu	Th	Wham 303	
9	9	9	4:00-4:50	M			Wham 307
			4:00-4:50	Tu	Th	Wham 303	
10	10	10	6:00-7:15 pm	Tu	Th	Wham 303	
203-3	Drama and The Arts of The Theater						
1	1	1	11:00-11:50	Tu	Th	Comm 137	Abrams
			3:00-3:50		Th	Comm 114	
2	2	2	11:00-11:50	Tu	Th	Comm 137	Abrams
			4:00-4:50		Th	Comm 114	
3	3	3	11:00-11:50	Tu	Th	Comm 137	Abrams
			3:00-3:50		F	Comm 114	
4	4	4	11:00-11:50	Tu	Th	Comm 137	Abrams
			4:00-4:50		F	Comm 114	
5	5	5	11:00-11:50	Tu	Th	Comm 137	Abrams
			1:00-1:50		Th	Comm 114	
6	6	6	11:00-11:50	Tu	Th	Comm 137	Abrams
			1:00-1:50		F	Comm 114	
204-4	Meaning in the Visual Arts						101 or 110 or consent
1	1	1	11:00-11:50	MTuW	F	L 231	Magnus
2	2	2	2:00-2:50	M	WThF	L 231	Magnus
205-4	The Contemporary Environment						
1			11:00-12:50	Tu		L 171	Grosowsky
			12:00-12:50		Th	L 171	Grosowsky
	1	1	11:00-12:50	Tu		L 161	Grosowsky
			12:00-12:50		Th	L 161	Grosowsky
2	2	2	1:00-2:50		W	L 171	Grosowsky
			1:00-1:50		F	L 171	Grosowsky
3	3	3	3:00-4:50	Tu		L 171	Grosowsky
			3:00-3:50		Th	L 171	Grosowsky
206-4	Foundations of Music						100
1	1	1	10:00-10:50	M	WTh	Alg 115	Spurbeck
			10:00-10:50	Tu		Alg 106	
2	2	2	10:00-10:50	M	WTh	Alg 115	Spurbeck
			11:00-11:50	Tu		Alg 115	
3	3	3	10:00-10:50	M	WTh	Alg 115	Spurbeck
			3:00-3:50		F	Alg 106	
4	4	4	10:00-10:50	M	WTh	Alg 115	Spurbeck
			8:00-8:50		F	Alg 115	
5	5	5	1:00-1:50	M	W	F	Betterton
			1:00-1:50	Tu		Alg 115	
6	6	6	1:00-1:50	M	W	F	Betterton
			1:00-1:50		Th	Alg 115	
7	7	7	1:00-1:50	M	W	F	Betterton
			10:00-10:50	Tu		Alg 248	
8	8	8	1:00-1:50	M	W	F	Betterton
			3:00-3:50		Th	Alg 106	
9	9	9	2:00-2:50	MTu	Th	Alg 115	Intravaia
			3:00-3:50		W	Alg 106	
10	10	10	2:00-2:50	MTu	Th	Alg 115	Intravaia
			10:00-10:50		F	Alg 106	
11	11	11	2:00-2:50	MTu	Th	Alg 115	Intravaia
			10:00-10:50		W	Alg 106	
12	12	12	2:00-2:50	MTu	Th	Alg 115	Intravaia
			3:00-3:50		F	Alg 248	
207-3	Philosophy of the Beautiful						
1	1	1	10:00-10:50	Tu	Th	L 171	McClure
			11:00-11:50		Th	Comm 114	
2	2	2	10:00-10:50	Tu	Th	L 171	McClure
			1:00-1:50		Th	Abbott 129	

## 50 GENERAL STUDIES AREA C (GSC)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>207-3 Philosophy of the Beautiful</b>							
3	3	3	10:00-10:50	Tu	Th	L 171	McClure
			9:00-9:50		F	Comm 114	
4	4	4	10:00-10:50	Tu	Th	L 171	McClure
			10:00-10:50		F	Comm 114	
5	5	5	10:00-10:50	Tu	Th	L 171	McClure
			1:00-1:50		F	Comm 120	
6	6	6	10:00-10:50	Tu	Th	L 171	McClure
			2:00-2:50		F	Comm 114	
7	7	7	10:00-10:50	Tu	Th	L 171	McClure
			8:00-8:50	M		Comm 114	
8	8	8	10:00-10:50	Tu	Th	L 171	McClure
			9:00-9:50	M		Comm 114	
<b>208-4 Logic and Meaning</b>							
1			9:00-9:50	M	W	F L 151	Eames
			10:00-10:50		F	HEc 120	
2			9:00-9:50	M	W	F L 151	Eames
			11:00-11:50		F	Arena 123	
3			9:00-9:50	M	W	F L 151	Eames
			12:00-12:50		F	HEc 120	
4			9:00-9:50	M	W	F L 151	Eames
			1:00-1:50		F	HEc 201	
5			9:00-9:50	M	W	F L 151	Eames
			2:00-2:50		F	M 201	
6			9:00-9:50	M	W	F L 151	Eames
			3:00-3:50		F	HEc 120	
7			9:00-9:50	M	W	F L 151	Eames
			10:00-10:50		F	HEc 303	
8			9:00-9:50	M	W	F L 151	Eames
			8:00-8:50	M		M 102a	
9	1		12:00-12:50	M	W	F L 151	Eames
			2:00-2:50		F	Wham 208	
10	2		12:00-12:50	M	W	F L 151	Eames
			3:00-3:50		F	Wham 210	
11			12:00-12:50	M	W	F L 151	
			9:00-9:50		Th	M 303	
	3		12:00-12:50	M	W	F L 151	Eames
			9:00-9:50		S	M 201	
12			12:00-12:50	M	W	F L 151	
			10:00-10:50		Th	M 201	
	4		12:00-12:50	M	W	F L 151	Eames
			10:00-10:50		S	M 201	
13	5		12:00-12:50	M	W	F L 151	Eames
			8:00-8:50	M		M 102	
14	6		12:00-12:50	M	W	F L 151	Eames
			9:00-9:50	M		Wh 207	
15	7		12:00-12:50	M	W	F L 151	Eames
			10:00-10:50	M		M 303	
16	8		12:00-12:50	M	W	F L 151	Eames
			11:00-11:50	M		Ag 144	
	9	1	9:00-9:50	M	W	F L 171	Eames
			10:00-10:50		F	HEc 106	
	10	2	9:00-9:50	M	W	F L 171	Eames
			11:00-11:50		F	Pierce 129	
	11	3	9:00-9:50	M	W	F L 171	Eames
			12:00-12:50		F	HEc 120	
	12	4	9:00-9:50	M	W	F L 171	Eames
			1:00-1:50		F	HEc 201	
	13	5	9:00-9:50	M	W	F L 171	Eames
			2:00-2:50		F	Ag 154	
	14	6	9:00-9:50	M	W	F L 171	Eames
			3:00-3:50		F	Ag 116	
		7	9:00-9:50	M	W	F L 171	
			10:00-10:50		Th	Ag 224	
	15		9:00-9:50	M	W	F L 171	Eames
			10:00-10:50		S	Ag 224	
	16	8	9:00-9:50	M	W	F L 171	Eames
			8:00-8:50	M		Ag 214	
		9	1:00-1:50	M	W	F L 161	Eames
			2:00-2:50		W	Wham 112	
		10	1:00-1:50	M	W	F L 161	Eames
			3:00-3:50		W	HEc 122	
		11	1:00-1:50	M	W	F L 161	Eames
			8:00-8:50		Th	HEc 104	
		12	1:00-1:50	M	W	F L 161	Eames
			9:00-9:50		Th	HEc 120	
		13	1:00-1:50	M	W	F L 161	Eames
			10:00-10:50		Th	M 102	

Course No.—Hours		Descriptive Title		Days			Place	Prerequisite Instructor
Fall	Winter	Spring	Time					
		14	1:00-1:50	M	W	F	L 161	Eames
			11:00-11:50			Th	HEc 120	
		15	1:00-1:50	M	W	F	L 161	Eames
			12:00-12:50			Th	HEc 306	
		16	1:00-1:50	M	W	F	L 161	Eames
			2:00-2:50			Th	M 210	
209-4	Modern Literature—Form and Idea							103
1	1	1	8:00-8:50	MTu	Th	F	Wham 307	
2		2	8:00-8:50	Tu	Th		Wham 317	
			8:00-8:50		W		Wham 307	
			8:00-8:50	M			Wham 302	
	2		8:00-8:50	Tu	Th		Wham 317	
			8:00-8:50		W		Wham 307	
			8:00-8:50			F	Wham 112	
3	3	3	9:00-9:50	MTu	Th	F	Wham 307	
4			9:00-9:50	Tu	Th		Wham 317	
			9:00-9:50		W	S	Wham 307	
	4		9:00-9:50	Tu	Th		Wham 317	
			9:00-9:50		W		Wham 307	
			9:00-9:50			F	Wham 210	
		4	9:00-9:50	Tu	Th		Wham 317	
			9:00-9:50		W		Wham 307	
			9:00-9:50			F	Wham 326	
5	5	5	10:00-10:50	MTu	Th	F	Wham 307	
6			10:00-10:50	Tu	Th		Wham 317	
			10:00-10:50		W		Wham 307	
			10:00-10:50	M			Wham 308	
	6	6	10:00-10:50	Tu	Th		Wham 317	
			10:00-10:50		W		Wham 307	
			10:00-10:50			F	Wham 203	
7	7	7	11:00-11:50	MTu	Th	F	Wham 307	
8			11:00-11:50	Tu	Th		Wham 317	
			11:00-11:50		W		Wham 307	
			11:00-11:50			F	Wham 208	
	8		11:00-11:50	Tu	Th		Wham 317	
			11:00-11:50		W	S	Wham 307	
		8	11:00-11:50	Tu	Th		Wham 317	
			11:00-11:50		W		Wham 307	
			11:00-11:50			F	Wham 203	
9	9	9	12:00-12:50	Tu	W	Th	F	Wham 307
10	10	10	12:00-12:50	MTu	Th	F	Abbott 129	
11	11	11	1:00-1:50	Tu	W	Th	F	Wham 307
12	12	12	1:00-1:50	MTu	Th	F	Wham 319	
13	13	13	2:00-2:50	Tu	W	Th	F	Wham 307
14	14	14	2:00-2:50	MTu	Th	F	Wham 319	
15	15	15	3:00-3:50	Tu	W	Th	F	Wham 307
16	16	16	3:00-3:50	MTu	Th	F	Wham 319	
17	17	17	4:00-4:50	Tu	W	Th	F	Wham 307
18	18	18	4:00-4:50	MTu	Th	F	Wham 319	
19	19	19	4:00-4:50	MTu	Th	F	Wham 329	
20	20	20	5:45-7:25 pm	M	W		Wham 307	
21	21	21	5:45-7:25 pm	Tu	Th		Wham 307	
22	22	22	5:45-7:25 pm	Tu	Th		Wham 317	
23	23	23	7:35-9:15 pm	M	W		Wham 307	
24	24	24	7:35-9:15 pm	Tu	Th		Wham 307	
25	25	25	7:35-9:15 pm	Tu	Th		Wham 317	
210-3	Introduction to Fiction							103
1	1	1	8:00-8:50	M	W	F	Wham 317	
2	2	2	9:00-9:50	M	W	F	Wham 317	
3	3	3	10:00-10:50	M	W	F	Wham 317	
4	4	4	11:00-11:50	M	W	F	Wham 317	
5	5	5	12:00-12:50	M	W	Th	Wham 317	
6	6	6	1:00-1:50	M	W	Th	Wham 317	
7	7	7	2:00-2:50	M	W	Th	Wham 317	
8	8	8	3:00-3:50	M	W	Th	Wham 317	
9	9	9	4:00-4:50	M	W	Th	Wham 317	
10	10	10	6:00-7:15 pm	M	W		Wham 317	
211a-3	Introduction to Oriental Humanities							
1			9:00-9:50	M	W	F	M 215	Liu
211b-3	Introduction to Oriental Humanities							
1			9:00-9:50	M	W	F	M 215	Kuo
211c-3	Introduction to Oriental Humanities							
1			9:00-9:50	M	W	F	M 215	Kuo
307-3	Early Islamic Culture							
	1		2:00-2:50	MTu	Th		Wham 302	Abbass
310-3	Religious Foundations of Western Civilization							
1			10:00-10:50	M	W	F	L 161	Liu



## 52 GENERAL STUDIES AREA C (GSC)

Course No.—		Hours	Descriptive Title		Days			Place	Prerequisite
Fall	Winter	Spring		Time					Instructor
311-3	<b>Religions and Philosophies of India</b>								
	1			10:00-10:50	M	W	F	L 161	Liu
312-3	<b>Religions and Philosophies of the Far East</b>								
	1			8:00-8:50	M	W	F	L 151	Liu
317-3	<b>Recent American Literature</b>								
	1	1	1	8:00-8:50	M	W	F	Wham 319	
	2	2	2	9:00-9:50	M	W	F	HEc 120	
		3		10:00-10:50		Tu	Th S	Wham 319	
	3		3	10:00-10:50		Tu	Th	Wham 319	
				10:00-10:50			W	Wham 321	
	4			11:00-11:50		Tu	Th	Wham 319	
				11:00-11:50			W	Wham 321	
		4		11:00-11:50		Tu	Th S	Wham 319	
			4	11:00-11:50		Tu	ThF	Wham 319	
	5	5	5	12:00-12:50	M	WTh		HEc 120	
	6	6	6	1:00-1:50	M	WTh		Wham 329	
	7	7	7	2:00-2:50	M	WTh		Wham 328	
	8	8	8	3:00-3:50		Tu	Th	M 203	
				3:00-3:50			F	M 209	
	9	9	9	4:00-4:50		Tu	Th	M 203	
				4:00-4:50			F	M 209	
	10	10	10	7:35-8:50 pm	M	W		Wham 329	
330-3	<b>Classical Mythology</b>								
	1			1:00-1:50	M	WTh		M 215	
331-3	<b>Latin Literature in Translation</b>								
	1			1:00-1:50	M	WTh		M 215	
332-3	<b>Classical Drama</b>								
	1			1:00-1:50	M	WTh		M 215	
340-3	<b>Art of the 19th Century</b>								
	1			9:00-9:50	M	W	F	L 231	101 or Art 100 Gluhman
341-3	<b>Art of the Early 20th Century</b>								
	1			9:00-9:50	M	W	F	L 231	101 or Art 100 Gluhman
342-3	<b>Art of the Middle 20th Century</b>								
	1			9:00-9:50	M	W	F	L 231	101 or Art 100 Gluhman
345a-3	<b>World Literature (Ancient, Greek, Roman)</b>								
	1			8:00-8:50		Tu	Th	Wham 319	
				8:00-8:50			W	Wham 321	
		1		8:00-8:50		Tu	Th S	Wham 319	
			1	8:00-8:50		Tu	Th	Wham 319	
				8:00-8:50			F	Wham 328	
	2		2	9:00-9:50		Tu	Th	Wham 205	
				9:00-9:50			F	Wham 203	
		2		9:00-9:50		Tu	Th	Wham 205	
				9:00-9:50			F	Wham 208	
	3	3	3	10:00-10:50	M	W	F	Wham 319	
	4	4	4	11:00-11:50	M	W	F	HEc 203	
	5	5	5	12:00-12:50			W	Wham 321	
				12:00-12:50		Tu	F	Wham 329	
	6	6	6	6:00-7:15 pm	M	W		HEc 202	
	7	7	7	7:35-8:50 pm	M	W		HEc 201	
345b	<b>World Literature (Medieval, Renaissance, and 18th Century)</b>								
	1	1	1	12:00-12:50		Tu	F	Wham 317	
				12:00-12:50			W	Wham 319	
	2	2	2	1:00-1:50		Tu	F	Wham 317	
				1:00-1:50			W	Wham 319	
	3	3	3	2:00-2:50		Tu	F	Wham 317	
				2:00-2:50			W	Wham 319	
	4	4	4	3:00-3:50		Tu	F	Wham 317	
				3:00-3:50			W	Wham 319	
	5	5	5	4:00-4:50		Tu	F	Wham 317	
				4:00-4:50			W	Wham 319	
	6	6	6	6:00-7:15 pm	Tu	Th		Wham 319	
	7	7	7	7:35-8:50 pm	Tu	Th		Wham 319	
345c-3	<b>World Literature (Romantic, Victorian, and Modern)</b>								
	1	1	1	8:00-8:50		MTu	Th	M 209	
	2	2	2	10:00-10:50	M	W	F	Wham 329	
	3	3	3	12:00-12:50	M	W	F	HEc 106	
	4	4	4	1:00-1:50		Tu	F	Wham 329	
				1:00-1:50			W	HEc 201	
	5	5	5	3:00-3:50	M	WTh		M 209	
	6	6	6	4:00-4:50	M	WTh		M 209	
	7	7	7	7:35-8:50 pm		Tu	Th	Wham 329	
348-3	<b>Photography as Communication and Art</b>								
	1			3:00-3:50	M	WTh		L 221	Horrell
349-3	<b>The Cinema</b>								
	1			3:00-3:50	M			L 221	Mercer

Course No.—Hours		Descriptive Title		Days		Place		Prerequisite
Fall	Winter	Spring	Time					Instructor
	1		3:00-3:50		Th	L 121		Mercer
			3:00-4:50		W	L 131		Mercer
<b>T351a-3</b>	<b>Masterpieces of the Novel (18th and 19th Century)</b>							
1			9:00-9:50		W	M 203b		
			9:00-9:50		ThF	M 209		
	1		9:00-9:50		W	M 203b		
			9:00-9:50		FS	M 209		
		1	9:00-9:50		W	M 203b		
			9:00-9:50		F	M 209		
			9:00-9:50		Tu	M 215		
2	2	2	11:00-11:50	M	W	F	Wham 329	
<b>T351b-3</b>	<b>Masterpieces of the Novel (20th Century)</b>							
1	1	1	1:00-1:50	M	WTh	M 209		
2	2	2	2:00-2:50	M	W	F	M 301	
3	3	3	6:00-7:15 pm	Tu	Th	M 201		
4	4	4	7:35-8:50 pm	Tu	Th	Wham 321		
<b>354a-3</b>	<b>History of Theater</b>							
1			9:00-9:50	M	W	F	Comm 122	Moe
<b>354b-3</b>	<b>History of Theater</b>							
	1		9:00-9:50	M	W	F	Comm 122	Moe
<b>357a-3</b>	<b>Music History and Literature</b>							
1			11:00-11:50	M	WThF	Alg 115		Morgan
<b>357b-3</b>	<b>Music History and Literature</b>							
1			11:00-11:50	M	WThF	Alg 115		Morgan
<b>357c-3</b>	<b>Music History and Literature</b>							
	1		11:00-11:50	M	WThF	Alg 115		Morgan
<b>363a-3<sup>1</sup></b>	<b>Philosophy of Science</b>							
1			11:00-11:50	Tu	Th	S	HEc 208	Clarke
<b>365-3</b>	<b>Shakespeare</b>							
1			8:00-8:50	Tu	Th	Wham 208		
			8:00-8:50		F	M 209		
	1		8:00-8:50		W	M 203b		
			8:00-8:50		F	M 209		
			8:00-8:50	Tu		M 207		
	1		8:00-8:50		W	M 203b		
			8:00-8:50		F	M 209		
			8:00-8:50		Th	M 210		
2	2	2	9:00-9:50	M	W	F	M 306a	
3			10:00-10:50	Tu	ThF	HEc 106		
	3		10:00-10:50	Tu	Th	S	HEc 106	
		3	10:00-10:50	MTu	Th	HEc 106		
4	4		11:00-11:50	Tu	Th	HEc 203		
			11:00-11:50		W	HEc 122		
		4	11:00-11:50	Tu	Th	HEc 203		
			11:00-11:50		W	HEc 202		
5	5	5	2:00-2:50	Tu		Wham 305		
			2:00-2:50		W	Wham 329		
			2:00-2:50		F	Wham 206		
6	6	6	3:00-3:50	Tu		M 209		
			3:00-3:50		W	F	M 306a	
7	7	7	4:00-4:50	Tu		M 209		
			4:00-4:50		W	F	M 306a	
8	8	8	6:00-7:15 pm	M	W	Wham 329		
<b>381-3</b>	<b>Greek Philosophy</b>							
1			8:00-8:50	M	W	F	HEc 208	
2			12:00-12:50	M	W	F	HEc 208	Howie
3			1:00-1:50	M	W	F	HEc 208	Diefenbeck
4			2:00-2:50	M	W	F	HEc 208	E. Eames
5			3:00-3:50	M	W	F	HEc 202	Kelly
<b>382-3</b>	<b>Graeco-Roman and Medieval Philosophy</b>							
1			8:00-8:50	M	W	F	HEc 208	
2			12:00-12:50	M	W	F	HEc 208	Howie
3			1:00-1:50	M	W	F	HEc 208	Diefenbeck
4			2:00-2:50	M	W	F	HEc 208	Eames
5			3:00-3:50	M	W	F	HEc 202	Kelly
<b>383-3</b>	<b>Early Modern Philosophy</b>							
	1		8:00-8:50	M	W	F	HEc 208	
	2		12:00-12:50	M	W	F	HEc 208	Howie
	3		1:00-1:50	M	W	F	HEc 208	Diefenbeck
	4		2:00-2:50	M	W	F	HEc 208	Eames
	5		3:00-3:50	M	W	F	HEc 202	Kelly
<b>386-3</b>	<b>Early American Philosophy</b>							
1			2:00-2:50	M	W	F	Tech A111	Hahn
<b>387-3</b>	<b>Recent American Philosophy</b>							
	1		2:00-2:50	M	W	F	Tech A111	Hahn

<sup>1</sup> To be listed under both Area C and Area A

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite
Fall	Winter	Spring	Time				Instructor

# GENERAL STUDIES AREA D— ORGANIZATION AND COMMUNICATION OF IDEAS (GSD)

## 101-3 English Composition

1			8:00-8:50	M	W	F	Felts 130
	1		8:00-8:50	M	W	F	Gym 203
		1	8:00-8:50	MTu	Th		M 203b
2			8:00-8:50	Tu	Th		Felts 130
			8:00-8:50		W		Comm 116
	2		8:00-8:50	Tu	Th		Gym 203
			8:00-8:50		W		Gym 204
		2	8:00-8:50		W		M 209
			8:00-8:50			F	M 203b
			8:00-8:50	Tu			M 302
3			8:00-8:50	M	W	F	Warren 129
	3		8:00-8:50	M	W	F	Ag 150
		3	8:00-8:50	M	W	F	M 306a
4			8:00-8:50	Tu	Th		Warren 129
			8:00-8:50			F	Wham 203
	4		8:00-8:50	Tu	Th		Ag 150
			8:00-8:50	M			Ag 148
		4	9:00-9:50		W		M 203
			9:00-9:50	Tu			M 102a
			9:00-9:50			F	M 203b
5			8:00-8:50	M	W	F	Gym 203
	5		9:00-9:50	M	W	F	Gym 203
		5	9:00-9:50		W		M 209
			9:00-9:50		Th		M 306a
			9:00-9:50	Tu			M 306a
6			8:00-8:50	Tu	Th		Gym 203
			8:00-8:50			F	Gym 204
	6		9:00-9:50	Tu	Th		Gym 203
			9:00-9:50		W		Wham 329
		6	9:00-9:50	M	W	F	M 310
7			8:00-8:50	M	W	F	M 306
	7		9:00-9:50	M	W	F	Ag 150
		7	10:00-10:50	M	W	F	M 203b
8			8:00-8:50	Tu	Th		M 306
			8:00-8:50		W		M 215
	8		9:00-9:50	Tu	Th		Ag 150
			9:00-9:50		W		Ag 214
		8	10:00-10:50	Tu	Th		M 203b
			10:00-10:50			F	M 210
9			8:00-8:50	M	W	F	Ag 150
	9		10:00-10:50	M	W	F	Gym 203
		9	10:00-10:50	M	W	F	M 209
10			8:00-8:50	Tu	Th		Ag 150
			8:00-8:50		W		Ag 116
	10		10:00-10:50	Tu	Th		Gym 203
			10:00-10:50		W		Wham 321
		10	11:00-11:50	M	W	F	M 203b
11			8:00-8:50	M	W	F	M 307
	11		10:00-10:50	M	W	F	Ag 150
		11	11:00-11:50	Tu	Th		M 203b
			11:00-11:50			F	M 102a
12			8:00-8:50	Tu	Th		M 307
			8:00-8:50		W		Wh 207
	12		10:00-10:50	Tu	Th		Ag 150
			10:00-10:50		W		Ag 168
		12	11:00-11:50	M	W	F	M 310
13			9:00-9:50	M	W	F	Felts 130
	13		11:00-11:50	M	W	F	Gym 203
		13	12:00-12:50	M	W	F	M 203b
14			9:00-9:50	Tu	Th	S	Felts 130
	14		11:00-11:50	Tu	Th		Gym 203
			11:00-11:50			F	Wh 207
		14	12:00-12:50	Tu	Th		M 203b
			12:00-12:50			F	HEc 122
15			9:00-9:50	M	W	F	Warren 129
	15		11:00-11:50	M	W	F	Ag 150
		15	12:00-12:50	M	WTh		HEc 122
16			9:00-9:50	Tu	Th	S	Warren 129
	16		12:00-12:50	Tu	Th		M 306
			12:00-12:50			F	M 305



Course No.	Hours			Descriptive Title			Prerequisite Instructor
	Fall	Winter	Spring	Time	Days	Place	
17			16	1:00-1:50	MTu Th	M 203b	
				9:00-9:50	M W F	Gym 203	
		17		12:00-12:50	M W F	Ag 150	
18			17	1:00-1:50	Tu	M 209	
				1:00-1:50	W F	M 203b	
				9:00-9:50	Tu Th	Gym 203	
				9:00-9:50	W	Arena 123	
19			18	12:00-12:50	M WTh	M 307	
			18	1:00-1:50	Tu	M 305	
				1:00-1:50	W F	M 305a	
20				9:00-9:50	M W F	M 306	
		19		1:00-1:50	MTu Th	M 306	
			19	2:00-2:50	MTu Th	M 209	
21				9:00-9:50	Tu Th	M 306	
				9:00-9:50	F	M 210	
		20		1:00-1:50	M W F	Ag 150	
22			20	2:00-2:50	MTu Th	M 203b	
				9:00-9:50	M W F	Ag 150	
			21	1:00-1:50	Tu	Ag 150	
				1:00-1:50	W F	M 306	
23				2:00-2:50	Tu	M 305	
				2:00-2:50	W F	M 203b	
				9:00-9:50	Tu Th	Ag 150	
				9:00-9:50	F	Arena 119	
24			22	2:00-2:50	MTu Th	M 306	
			22	3:00-3:50	MTu Th	M 203b	
				9:00-9:50	M W F	M 307	
25			23	2:00-2:50	M W F	Ag 150	
			23	3:00-3:50	Tu	M 305	
				3:00-3:50	W F	M 203b	
26				9:00-9:50	Tu Th S	M 307	
		24		2:00-2:50	Tu	Ag 150	
				2:00-2:50	W F	M 306	
27			24	3:00-3:50	MTu Th	Wham 321	
				10:00-10:50	M W F	Felts 130	
		25		3:00-3:50	MTu Th	M 306	
28			25	4:00-4:50	MTu Th	M 203b	
				10:00-10:50	Tu Th	Felts 130	
				10:00-10:50		Tech A422	
29			26	3:00-3:50	M W F	Ag 150	
			26	4:00-4:50	Tu	M 305	
				4:00-4:50	W F	M 203b	
30				10:00-10:50	M W F	Warren 129	
			27	3:00-3:50	Th	Ag 150	
				3:00-3:50	W F	M 306	
31			27	4:00-4:50	MTu	M 308	
				4:00-4:50	Th	Wham 312	
				10:00-10:50	Tu Th	Warren 129	
32				10:00-10:50	W	Tech A422	
			28	4:00-4:50	MTu Th	M 306	
			28	6:00-7:15 pm	Tu Th	M 209	
33				10:00-10:50	M W F	Gym 203	
			29	4:00-4:50	M W F	Ag 150	
				6:00-7:15 pm	M W	Wham 321	
34				10:00-10:50	Tu Th	Gym 203	
				10:00-10:50	F	Gym 204	
			30	4:00-4:50	Th	Ag 150	
35				4:00-4:50	W F	M 306	
			30	7:35-8:50 pm	Tu Th	M 209	
				10:00-10:50	M W F	M 306	
36			31	6:00-7:15 pm	M W	Ag 150	
				10:00-10:50	Tu Th	M 306	
				10:00-10:50	M	M 310	
37			32	6:00-7:15 pm	Tu Th	Ag 150	
				10:00-10:50	M W F	Ag 150	
			33	6:00-7:15 pm	M W	M 310	
38				10:00-10:50	Tu Th	Ag 150	
				10:00-10:50	F	Ag 220	
			34	7:35-8:50 pm	M W	Ag 150	
39				10:00-10:50	M W F	M 307	
			35	7:35-8:50 pm	Tu Th	Ag 150	
				10:00-10:50	Tu Th	M 307	
40			36	10:00-10:50	F	M 310	
				7:35-8:50 pm	M W	M 310	
				11:00-11:50	M W F	Felts 130	
41				11:00-11:50	Tu Th	Felts 130	
				11:00-11:50	W	Comm 116	

## 56 GENERAL STUDIES AREA D (GSD)

Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time			
101-3 English Composition						
39			11:00-11:50	M W F	Warren 129	
40			11:00-11:50	Tu Th	Warren 129	
			11:00-11:50		F	Wham 112
41			11:00-11:50	M W F	Gym 203	
42			11:00-11:50	Tu Th S	Gym 203	
43			11:00-11:50	M W F	M 306	
44			11:00-11:50	Tu Th	M 306	
			11:00-11:50	W	M 201	
45			11:00-11:50	M W F	Ag 150	
46			11:00-11:50	Tu Th	Ag 150	
			11:00-11:50	W	Ag 220	
47			11:00-11:50	M W F	M 307	
48			11:00-11:50	Tu Th	M 307	
			11:00-11:50		F	Tech A120
49			12:00-12:50	M W F	Felts 130	
50			12:00-12:50	Tu Th	Felts 130	
			12:00-12:50		F	Warren 129
51			12:00-12:50	M WTh	Warren 129	
52			12:00-12:50	M Th	Gym 203	
			12:00-12:50	W	HEc 122	
53			12:00-12:50	TuW F	Gym 203	
54			12:00-12:50	Tu Th	M 306	
			12:00-12:50		F	Wham 301b
55			12:00-12:50	M W F	M 306	
56			12:00-12:50	M WTh	Ag 150	
57			12:00-12:50	M W F	M 209	
58			12:00-12:50	Tu Th	M 209	
			12:00-12:50		F	M 306a
59			12:00-12:50	M WTh	M 309	
60			1:00-1:50	M W F	Felts 130	
61			1:00-1:50	Tu Th	Felts 130	
			1:00-1:50		F	Warren 129
62			1:00-1:50	M WTh	Warren 129	
63			1:00-1:50	M Th	Gym 203	
			1:00-1:50	W	HEc 122	
64			1:00-1:50	TuW F	Gym 203	
65			1:00-1:50	Tu Th	M 306	
			1:00-1:50		F	Wham 301b
66			1:00-1:50	M W F	M 306	
67			1:00-1:50	M WTh	Ag 150	
68			1:00-1:50	M WTh	M 306a	
69			1:00-1:50	M WTh	M 309	
70			1:00-1:50	Tu F	M 306a	
			1:00-1:50	W	M 310	
71			2:00-2:50	M W F	Felts 130	
72			2:00-2:50	Tu Th	Felts 130	
			2:00-2:50		F	Warren 129
73			2:00-2:50	M WTh	Warren 129	
74			2:00-2:50	M Th	Gym 203	
			2:00-2:50	W	HEc 122	
75			2:00-2:50	TuW F	Gym 203	
76			2:00-2:50	Tu Th	M 306	
			2:00-2:50		F	Wham 301b
77			2:00-2:50	M W F	M 306	
78			2:00-2:50	M WTh	Ag 150	
79			2:00-2:50	M WTh	M 306a	
80			2:00-2:50	Tu ThF	M 309	
81			2:00-2:50	M W F	M 209	
82			3:00-3:50	M W F	Felts 130	
83			3:00-3:50	Tu Th	Felts 130	
			3:00-3:50		F	Warren 129
84			3:00-3:50	M WTh	Warren 129	
85			3:00-3:50	M Th	Gym 203	
			3:00-3:50	W	HEc 122	
86			3:00-3:50	TuW F	Gym 203	
87			3:00-3:50	Tu Th	M 306	
			3:00-3:50		F	Wham 301b
88			3:00-3:50	M W F	M 306	
89			3:00-3:50	M WTh	Ag 150	
90			3:00-3:50	M W F	M 309	
91			3:00-3:50	Tu Th	M 309	
			3:00-3:50		F	M 310
92			3:00-3:50	MTu Th	M 306a	
93			4:00-4:50	M W F	Felts 130	
94			4:00-4:50	Tu Th	Felts 130	
			4:00-4:50		F	Warren 129

Course No.	Hours			Descriptive Title	Days		Place	Prerequisite Instructor
	Fall	Winter	Spring					
95				4:00-4:50	M	WTh	Warren 129	
96				4:00-4:50	M	Th	Gym 203	
				4:00-4:50		W	HEc 122	
97				4:00-4:50	TuW	F	Gym 203	
98				4:00-4:50	Tu	Th	M 306	
				4:00-4:50		F	Wham 301b	
99				4:00-4:50	M	W F	M 306	
100				4:00-4:50	M	WTh	Ag 150	
101				4:00-4:50	M	W F	M 309	
102				4:00-4:50	Tu	Th	M 309	
				4:00-4:50		F	M 310	
103				4:00-4:50	MTu	Th	M 306a	
104				6:00-7:15 pm	M	W	Gym 203	
105				6:00-7:15 pm	Tu	Th	Gym 203	
106				6:00-7:15 pm	M	W	M 306	
107				6:00-7:15 pm	Tu	Th	M 306	
108				6:00-7:15 pm	M	W	Ag 150	
109				6:00-7:15 pm	Tu	Th	Ag 150	
110				6:00-7:15 pm	M	W	Wham 312	
111				6:00-7:15 pm	Tu	Th	Wham 312	
112				6:00-7:15 pm	M	W	M 209	
113				6:00-7:15 pm	Tu	Th	M 209	
114				6:00-7:15 pm	M	W	M 306a	
115				7:35-8:50 pm	M	W	Gym 203	
116				7:35-8:50 pm	Tu	Th	Gym 203	
117				7:35-8:50 pm	M	W	M 306	
118				7:35-8:50 pm	Tu	Th	M 306	
119				7:35-8:50 pm	M	W	Ag 150	
120				7:35-8:50 pm	Tu	Th	Ag 150	
121				7:35-8:50 pm	M	W	Wham 312	
122				7:35-8:50 pm	Tu	Th	Wham 312	
123				7:35-8:50 pm	M	W	M 209	
124				7:35-8:50 pm	Tu	Th	M 209	
125				7:35-8:50 pm	M	W	M 306a	
<b>102-3 English Composition</b>					<b>101 or equivalent ACT percentile</b>			
1				8:00-8:50	Tu	Th	M 203	
				8:00-8:50		W	HEc 118	
	1			8:00-8:50	M	W F	M 309	
		1		8:00-8:50	TuWTh		Tech A120	
2				8:00-8:50	M	W F	M 306a	
	2			8:00-8:50	Tu	Th	M 309	
				8:00-8:50		W	HEc 106	
		2		8:00-8:50	M	W F	M 310	
3				8:00-8:50	Tu	Th	M 306a	
				8:00-8:50	M		P 301	
	3			8:00-8:50	M	W F	M 310	
		3		8:00-8:50	Tu	Th	M 310	
				8:00-8:50		F	M 305a	
4				8:00-8:50	M	W F	M 309	
	4			8:00-8:50	Tu	Th	M 310	
				8:00-8:50		F	HEc 118	
		4		9:00-9:50	Tu	Th	M 310	
				9:00-9:50		W	M 309	
5				8:00-8:50	Tu	Th	M 309	
				8:00-8:50		F	Comm 118	
	5			8:00-8:50	M	W F	M 305	
		5		9:00-9:50	M	W F	Wham 329	
6				9:00-9:50	Tu	Th	M 306a	
				9:00-9:50		F	Wh 113	
	6			8:00-8:50	Tu	Th	M 305	
				8:00-8:50		W	M 215	
		6		9:00-9:50	M	W F	Tech A208	
7				9:00-9:50	M	W F	M 309	
	7			8:00-8:50	M	W F	M 307	
		7		10:00-10:50	Tu	Th	M 209	
				10:00-10:50	M		M 215	
8				9:00-9:50	Tu	Th	M 309	
				9:00-9:50		F	Comm 116	
	8			8:00-8:50	Tu	Th	M 307	
				8:00-8:50		W	M 210	
		8		10:00-10:50	M	W F	M 306a	
9				9:00-9:50	M	W F	M 310	
	9			8:00-8:50	M	W F	Wham 203	
		9		10:00-10:50	Tu	Th	M 306a	
				10:00-10:50	M		HEc 120	
10				9:00-9:50	Tu	Th S	M 310	



## 58 GENERAL STUDIES AREA D (GSD)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
102-3	English	Composition	101 or equivalent ACT percentile				
	10	8:00-8:50	Tu Th			M 306a	
		8:00-8:50			F	M 210	
	10	11:00-11:50	Tu Th S			M 310	
11		10:00-10:50	Tu Th			M 203	
		10:00-10:50			W	M 203b	
	11	9:00-9:50	M W F			M 309	
	11	11:00-11:50	M W F			M 209	
12		10:00-10:50	M W F			M 209	
	12	9:00-9:50	Tu Th			M 309	
		9:00-9:50			W	HEc 118	
	12	11:00-11:50	Tu Th			M 209	
		11:00-11:50			W	M 215	
13		10:00-10:50	Tu Th			M 209	
		10:00-10:50			W	M 210	
	13	9:00-9:50	M W F			M 310	
	13	12:00-12:50	Tu Th			M 209	
		12:00-12:50			F	Wham 312	
14		10:00-10:50	M W F			M 306a	
	14	9:00-9:50	Tu Th S			M 310	
	14	12:00-12:50	MTu Th			Wham 312	
15		10:00-10:50	Tu Th			M 306a	
		10:00-10:50			W	M 310	
	15	9:00-9:50	M W F			M 305	
	15	12:00-12:50	M Th			M 305a	
		12:00-12:50			W	Wham 312	
16		11:00-11:50	Tu Th			M 203	
		11:00-11:50			W	HEc 120	
	16	9:00-9:50	Tu Th			M 305	
		9:00-9:50			F	Wham 326	
	16	1:00-1:50	Tu F			M 215	
		1:00-1:50			W	M 203	
17		11:00-11:50	M W F			M 209	
	17	9:00-9:50	M W F			M 307	
	17	1:00-1:50	M W F			Pierce 129	
18		11:00-11:50	Tu Th			M 209	
		11:00-11:50			F	Comm 118	
	18	9:00-9:50	Tu Th S			M 307	
	18	1:00-1:50	MTu Th			M 305a	
19		11:00-11:50	M W F			M 306a	
	19	9:00-9:50	Tu Th			M 306a	
		9:00-9:50	M			M 210	
	19	2:00-2:50	Tu			Wham 329	
		2:00-2:50			W F	M 209	
20		11:00-11:50	Tu Th			M 306a	
		11:00-11:50			W	P 301	
	20	10:00-10:50	M W F			M 309	
	20	2:00-2:50	M ThF			Wham 329	
21		12:00-12:50	Tu F			M 309	
		12:00-12:50			W	M 310	
	21	10:00-10:50	Tu Th			M 309	
		10:00-10:50			W	HEc 118	
	21	2:00-2:50	Tu			M 308	
		2:00-2:50			W F	M 306a	
22		12:00-12:50	MTu Th			M 310	
	22	10:00-10:50	M W F			M 310	
	22	3:00-3:50			W F	Wham 321	
		3:00-3:50	Tu			Wham 329	
23		12:00-12:50	M W F			M 305	
	23	10:00-10:50	Tu Th			M 310	
		10:00-10:50			F	HEc 120	
	23	3:00-3:50	M WTh			Wham 329	
24		12:00-12:50	Tu Th			M 305	
		12:00-12:50			F	M 307	
	24	10:00-10:50	M W F			M 305	
	24	3:00-3:50	MTu Th			Wham 312	
25		12:00-12:50	MTu Th			M 307	
	25	10:00-10:50	Tu Th			M 305	
		10:00-10:50			W	P 309	
	25	4:00-4:50	Tu			M 102a	
		4:00-4:50			W F	Wham 321	
26		1:00-1:50	Tu F			M 309	
		1:00-1:50			W	M 203	
	26	10:00-10:50	M W F			M 307	
	26	4:00-4:50	M W F			M 305a	
27		1:00-1:50	MTu Th			M 310	
	27	10:00-10:50	Tu Th			M 307	
		10:00-10:50			W	M 209	

Course No.	Hours			Descriptive Title				Prerequisite Instructor
	Fall	Winter	Spring	Time	Days		Place	
28		28	27	4:00-4:50	MTu	Th	Wham 321	
				1:00-1:50	M	W F	M 305	
				10:00-10:50		F	M 203	
				10:00-10:50		W	M 203b	
				10:00-10:50	Tu		M 201	
29		29	28	6:00-7:15 pm	Tu	Th	Wham 321	
				1:00-1:50	Tu	Th	M 305	
				1:00-1:50		F	M 307	
				11:00-11:50	M	W F	M 309	
			29	7:35-8:50 pm	M	W	Wham 312	
30		30		1:00-1:50	MTu	Th	Pierce 129	
				11:00-11:50	Tu	Th	M 309	
				11:00-11:50		W	HEc 303	
			30	7:35-8:50 pm	Tu	Th	Wham 312	
				2:00-2:50	Tu	Th	M 209	
31		31		2:00-2:50		F	M 310	
				11:00-11:50	M	W F	M 310	
				2:00-2:50	M	W	M 309	
				2:00-2:50		Th	M 305	
			32	11:00-11:50	Tu	Th	M 310	
32		32		11:00-11:50		W	HEc 202	
				2:00-2:50	M	W F	M 305	
				11:00-11:50	M	W F	M 305	
				2:00-2:50	Tu	F	M 306a	
				2:00-2:50		W	M 203b	
33		33		11:00-11:50	Tu	Th	M 305	
				11:00-11:50	M		M 201	
				2:00-2:50	M	WTh	M 310	
			35	11:00-11:50	M	W F	M 307	
				3:00-3:50	M	WTh	M 310	
34		34		11:00-11:50	Tu	Th	M 307	
				11:00-11:50		W	P 301	
				3:00-3:50	Tu	W F	M 305	
			37	11:00-11:50	Tu	Th	M 203	
				11:00-11:50		W	M 203b	
35		35		3:00-3:50	M	Th	M 305	
				3:00-3:50	Tu		M 310	
			38	12:00-12:50	M	W F	M 203	
				3:00-3:50	M	WTh	M 307	
			39	12:00-12:50	Tu	Th	M 203	
36		36		12:00-12:50		F	M 209	
				3:00-3:50	Tu	F	M 307	
				3:00-3:50		W	M 203b	
			40	12:00-12:50	M	WTh	M 209	
				4:00-4:50	M	WTh	M 310	
37		37		12:00-12:50	Tu		M 209	
				12:00-12:50	M	W	M 306a	
				4:00-4:50	Tu	W F	M 305	
			42	12:00-12:50	MTu	Th	M 309	
				4:00-4:50	MTu	Th	Pierce 129	
38		38		12:00-12:50	MTu	Th	M 306a	
				4:00-4:50	M	WTh	M 307	
				12:00-12:50	M	WTh	M 310	
			44	4:00-4:50	Tu	F	M 307	
				4:00-4:50		W	M 203b	
39		39		12:00-12:50	Tu		M 310	
				12:00-12:50		W F	M 309	
				6:00-7:15 pm	M	W	M 309	
			46	12:00-12:50	M	WTh	M 305	
				6:00-7:15 pm	Tu	Th	M 309	
40		40		1:00-1:50	Tu	Th	M 203	
				1:00-1:50		F	M 209	
				6:00-7:15 pm	M	W	M 310	
			48	1:00-1:50	Tu		M 209	
				1:00-1:50	M	Th	M 306a	
41		41		6:00-7:15 pm	Tu	Th	M 310	
				1:00-1:50	Tu	W F	M 306a	
				6:00-7:15 pm	Tu	Th	M 203b	
			50	1:00-1:50	M	WTh	M 309	
				7:35-8:50 pm	M	W	M 309	
42		42		1:00-1:50	MTu	Th	M 310	
				7:35-8:50 pm	Tu	Th	M 309	
				1:00-1:50	Tu	F	M 309	
				1:00-1:50		W	M 203b	
			53	7:35-8:50 pm	M	W	M 310	
43		43		1:00-1:50	Tu		M 305	
				1:00-1:50		W F	M 310	

## 60 GENERAL STUDIES AREA D (GSD)

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time	

## 102-3 English Composition ..... 101 or equivalent ACT percentile

54		7:35-8:50 pm	Tu Th	M 310
	54	1:00-1:50	M W F	M 305
55		7:35-8:50 pm	M W	M 203
	55	1:00-1:50	MTu Th	M 307
	56	2:00-2:50	M WTh	M 209
	57	2:00-2:50	Tu F	M 209
		2:00-2:50	W	M 203
	58	2:00-2:50	M WTh	M 306a
	59	2:00-2:50	Tu F	M 306a
		2:00-2:50	W	M 309
	60	2:00-2:50	MTu Th	M 309
	61	2:00-2:50	Tu Th	M 310
		2:00-2:50	F	M 309
	62	2:00-2:50	M WTh	M 305
	63	2:00-2:50	M W F	M 310
	64	2:00-2:50	W	M 203b
		2:00-2:50	Tu F	M 305
	65	3:00-3:50	M W F	M 203
	66	3:00-3:50	MTu Th	M 306a
	67	3:00-3:50	M W F	M 309
	68	3:00-3:50	Tu Th	M 309
		3:00-3:50	F	M 310
	69	3:00-3:50	M WTh	M 310
	70	3:00-3:50	Tu	M 310
		3:00-3:50	W F	M 305
	71	3:00-3:50	MTu Th	M 305
	72	3:00-3:50	M WTh	M 307
	73	3:00-3:50	Tu F	M 307
		3:00-3:50	W	M 203b
	74	4:00-4:50	M W F	M 203
	75	4:00-4:50	MTu Th	M 306a
	76	4:00-4:50	M W F	M 309
	77	4:00-4:50	Tu Th	M 309
		4:00-4:50	F	M 310
	78	4:00-4:50	M WTh	M 310
	79	4:00-4:50	Tu	M 310
		4:00-4:50	W F	M 305
	80	4:00-4:50	MTu Th	M 305
	81	4:00-4:50	M WTh	M 307
	82	4:00-4:50	Tu F	M 307
		4:00-4:50	W	M 203b
	83	6:00-7:15 pm	Tu Th	M 203
	84	6:00-7:15 pm	M W	M 201
	85	6:00-7:15 pm	Tu Th	M 203b
	86	6:00-7:15 pm	M W	M 209
	87	6:00-7:15 pm	M W	M 306a
	88	6:00-7:15 pm	Tu Th	M 306a
	89	6:00-7:15 pm	M W	M 309
	90	6:00-7:15 pm	Tu Th	M 309
	91	6:00-7:15 pm	Tu Th	M 209
	92	7:35-8:50 pm	Tu Th	M 203
	93	7:35-8:50 pm	M W	M 209
	94	7:35-8:50 pm	Tu Th	M 203b
	95	7:35-8:50 pm	Tu Th	M 209
	96	7:35-8:50 pm	M W	M 306a
	97	7:35-8:50 pm	Tu Th	M 306a
	98	7:35-8:50 pm	M W	M 309
	99	7:35-8:50 pm	Tu Th	M 309
	100	7:35-8:50 pm	Tu Th	M 310

## 103-3 Oral Communication of Ideas .....

1	1	1	8:00-8:50	M W F	Ag 222
			1:00-1:50	Th	L 231
2	2	2	8:00-8:50	M W F	Wham 137
			1:00-1:50	Th	L 101
3			12:00-12:50	M W F	Comm 116
			1:00-1:50	Th	Comm 120
	3		2:00-2:50	M W F	Comm 214
			1:00-1:50	Th	Comm 120
		3	12:00-12:50	M W F	Wham 137
			1:00-1:50	Th	Comm 120
4	4	4	8:00-8:50	M W F	Wham 305
			1:00-1:50	Th	Comm 122
5	5	5	8:00-8:50	M W F	Abbott 129
			1:00-1:50	Th	HEc 201
6			8:00-8:50	Tu Th	Ag 222
			8:00-8:50	F	Ag 220
			12:00-12:50	Th	L 231



Course No.—Hours			Descriptive Title Time	Days		Place	Prerequisite Instructor
Fall	Winter	Spring					
	6	6	8:00-8:50	Tu	Th	Ag 222	
			8:00-8:50	M		Ag 220	
			12:00-12:50		Th	L 231	
7			8:00-8:50	Tu	Th	Abbott 129	
			8:00-8:50		F	Comm 116	
			12:00-12:50		Th	L 231	
	7		8:00-8:50	Tu	Th	Abbott 129	
			8:00-8:50		W	Comm 111	
			12:00-12:50		Th	L 231	
		7	8:00-8:50	Tu	Th	Abbott 129	
			8:00-8:50	M		Pierce 130	
			12:00-12:50		Th	L 231	
8			8:00-8:50	Tu	Th	Wham 137	
			8:00-8:50	M		Wham 112	
			12:00-12:50		Th	Comm 120	
	8		8:00-8:50	Tu	Th	Wham 137	
			8:00-8:50		F	Wham 206	
			12:00-12:50		Th	Comm 120	
		8	8:00-8:50	Tu	Th	Wham 137	
			8:00-8:50	M		Wham 112	
			12:00-12:50		Th	Comm 120	
9			8:00-8:50	Tu	Th	Wham 305	
			8:00-8:50		F	Wham 208	
			12:00-12:50		Th	Comm 122	
	9		8:00-8:50	Tu	Th	Wham 305	
			8:00-8:50		F	Wham 328	
			12:00-12:50		Th	Comm 122	
		9	8:00-8:50	Tu	Th	Wham 305	
			8:00-8:50	M		Wham 112	
			12:00-12:50		Th	Comm 122	
10	10	10	9:00-9:50	M	W F	Ag 222	
			1:00-1:50		Th	L 231	
11	11	11	9:00-9:50	M	W F	Wham 137	
			1:00-1:50		Th	L 101	
12			4:00-4:50	M	W F	Comm 116	
			1:00-1:50		Th	Comm 120	
	12		3:00-3:50	M	W F	Comm 214	
			1:00-1:50		Th	Comm 120	
		12	4:00-4:50	M	W F	Comm 116	
			1:00-1:50		Th	Comm 120	
13	13	13	9:00-9:50	M	W F	Wham 305	
			1:00-1:50		Th	Comm 122	
14	14	14	9:00-9:50	M	W F	Abbott 129	
			1:00-1:50		Th	HEc 201	
15	15		9:00-9:50	Tu	Th S	Ag 222	
			12:00-12:50		Th	L 231	
		15	9:00-9:50	Tu	Th	Ag 222	
			9:00-9:50		F	Arena 123	
			12:00-12:50		Th	L 231	
16	16		9:00-9:50	Tu	Th	Abbott 129	
			9:00-9:50	M		Bailey 130	
			12:00-12:50		Th	L 101	
		16	9:00-9:50	Tu	Th	Abbott 129	
			9:00-9:50		F	Arena 123	
			12:00-12:50		Th	L 231	
17			9:00-9:50	Tu	Th	Abbott 129	
			9:00-9:50		W	Wham 329	
			12:00-12:50		Th	Comm 120	
	17		9:00-9:50	Tu	Th	Abbott 129	
			9:00-9:50		F	Wham 203	
			12:00-12:50		Th	Comm 120	
		17	9:00-9:50	Tu	Th	Abbott 129	
			9:00-9:50		W	Wham 201	
			12:00-12:50		Th	Comm 120	
18			9:00-9:50	Tu	Th	Wham 305	
			9:00-9:50		F	Wham 210	
			12:00-12:50		Th	Comm 122	
	18		9:00-9:50	Tu	Th	Wham 305	
			9:00-9:50		F	Wham 321	
			12:00-12:50		Th	Comm 122	
		18	9:00-9:50	Tu	Th	Wham 305	
			9:00-9:50		W	Wham 319	
			12:00-12:50		Th	Comm 122	
19	19	19	10:00-10:50	MTu	Th	Ag 222	
			8:00-8:50		Th	L 231	
20	20	20	10:00-10:50	MTu	Th	Wham 137	
			8:00-8:50		Th	L 101	

## 62 GENERAL STUDIES AREA D (GSD)

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time		Instructor
<b>103-3 Oral Communication of Ideas</b>					
21	21	21	6:00-7:25 pm	M W	Wham 137
			8:00-8:50	Th	Comm 120
22	22	22	10:00-10:50	MTu Th	Wham 305
			8:00-8:50	Th	Comm 122
23	23	23	10:00-10:50	MTu Th	Abbott 129
			8:00-8:50	Th	HEc 201
24	24		10:00-10:50	W F	Ag 222
			10:00-10:50	M	Ag 214
			9:00-9:50	Th	L 231
		24	10:00-10:50	W F	Ag 222
			10:00-10:50	Tu	Ag 224
			9:00-9:50	Th	L 231
25			10:00-10:50	W F	M 210
			10:00-10:50	Tu	Wham 208
			9:00-9:50	Th	Wham 137
	25		10:00-10:50	W FS	M 210
			9:00-9:50	Th	Wham 137
		25	10:00-10:50	W F	M 210
			10:00-10:50	Tu	Wham 112
			9:00-9:50	Th	Wham 137
26	26	26	1:00-1:50	M W F	Wham 137
			9:00-9:50	Th	Comm 120
	27	27	10:00-10:50	W FS	Wham 305
			9:00-9:50	Th	Comm 122
27			10:00-10:50	W F	Wham 305
			10:00-10:50	M	Wham 302
			9:00-9:50	Th	Comm 122
28	28	28	10:00-10:50	W F	Abbott 129
			10:00-10:50	M	Bailey 130
			9:00-9:50	Th	HEc 201
29	29	29	11:00-11:50	MTu Th	Ag 222
			8:00-8:50	Th	L 231
30	30	30	11:00-11:50	MTu Th	M 210
			8:00-8:50	Th	L 101
31	31	31	7:35-9:00 pm	M W	Wham 137
			8:00-8:50	Th	Comm 120
32	32	32	11:00-11:50	MTu Th	Wham 305
			8:00-8:50	Th	Comm 122
33	33	33	11:00-11:50	MTu Th	Abbott 129
			8:00-8:50	Th	HEc 201
34			11:00-11:50	W F	Ag 222
			11:00-11:50	Tu	Ag 154
			9:00-9:50	Th	L 231
	34		11:00-11:50	W F	Ag 222
			11:00-11:50	Tu	Ag 220
			9:00-9:50	Th	L 231
		34	11:00-11:50	W F	Ag 222
			11:00-11:50	Tu	Ag 224
			9:00-9:50	Th	L 231
35		35	11:00-11:50	W F	M 210
			11:00-11:50	Tu	M 301
			9:00-9:50	Th	L 101
	35		11:00-11:50	W F	M 210
			11:00-11:50	M	P 111
			9:00-9:50	Th	L 101
36	36	36	2:00-2:50	M W F	Tech D131
			9:00-9:50	Th	Comm 120
	37	37	11:00-11:50	W FS	Wham 305
			9:00-9:50	Th	Comm 122
37			11:00-11:50	W F	Wham 305
			11:00-11:50	Th	Wham 206
			9:00-9:50	Th	Comm 122
38			11:00-11:50	W F	Wham 305
			11:00-11:50	Tu	Tech A120
			9:00-9:50	Th	HEc 201
	38		11:00-11:50	W F	Wham 305
			11:00-11:50	M	Pierce 129
			9:00-9:50	Th	HEc 201
		38	11:00-11:50	W F	Wham 305
			11:00-11:50	M	Bailey 130
			9:00-9:50	Th	HEc 201
39	39	39	1:00-1:50	TuWTh	Ag 222
			10:00-10:50	Th	L 231
40	40	40	1:00-1:50	M W F	Abbott 129
			10:00-10:50	Th	L 101
41	41	41	6:00-7:25 pm	Tu Th	Comm 116
			10:00-10:50	Th	Comm 120

Course No.—Hours		Descriptive Title		Days			Place	Prerequisite Instructor
Fall	Winter	Spring	Time					
42	42	42	1:00–1:50	M	W	F	Wham 305	
			10:00–10:50			Th	Comm 122	
43	43	43	2:00–2:50		Tu	WTh	Ag 222	
			10:00–10:50			Th	L 231	
44	44	44	2:00–2:50	M	W	F	Abbott 129	
			10:00–10:50			Th	L 101	
45	45	45	7:35–9:00 pm		Tu	Th	Comm 116	
			10:00–10:50			Th	Comm 120	
46	46	46	2:00–2:50	M	W	F	Wham 305	
			10:00–10:50			Th	Comm 122	
47	47	47	3:00–3:50	M	W	F	Ag 222	
			11:00–11:50			Th	L 231	
48	48	48	3:00–3:50		Tu	ThF	Abbott 129	
			11:00–11:50			Th	L 101	
49	49	49	3:00–3:50	M	W	F	Wham 137	
			11:00–11:50			Th	Comm 120	
50	50	50	3:00–3:50	MTu		Th	Wham 305	
			11:00–11:50			Th	Comm 122	
51	51	51	4:00–4:50	M	W	F	Ag 222	
			11:00–11:50			Th	L 231	
52	52	52	4:00–4:50		Tu	ThF	Abbott 129	
			11:00–11:50			Th	L 101	
53	53	53	4:00–4:50	M	W	F	Wham 137	
			11:00–11:50			Th	Comm 120	
54	54	54	4:00–4:50	MTu		Th	Wham 305	
			11:00–11:50			Th	Comm 122	
55	55	55	6:00–7:25 pm	M	W		Ag 222	
			9:00–9:50			Th	HEc 206	
56	56	56	6:00–7:25 pm	M	W		Comm 214	
			10:00–10:50			Th	HEc 206	
57	57	57	6:00–7:25 pm	M	W		Wham 305	
			11:00–11:50			Th	HEc 206	
58	58	58	6:00–7:25 pm		Tu	Th	Ag 222	
			12:00–12:50			Th	HEc 206	
59	59	59	6:00–7:25 pm		Tu	Th	Wham 305	
			1:00–1:50			Th	HEc 206	
60	60	60	7:35–9:00 pm	M	W		Ag 222	
			9:00–9:50			Th	HEc 206	
61	61	61	7:35–9:00 pm	M	W		Comm 214	
			10:00–10:50			Th	HEc 206	
62	62	62	7:35–9:00 pm	M	W		Wham 305	
			11:00–11:50			Th	HEc 206	
63	63	63	7:35–9:00 pm		Tu	Th	Wham 305	
			12:00–12:50			Th	HEc 206	
64	64	64	7:35–9:00 pm		Tu	Th	Tech D131	
			1:00–1:50			Th	HEc 206	
106–0 Intermediate Algebra								
1			8:00–8:50	MTu		ThF	M 215	
2			9:00–9:50	MTu	W	Th	M 301	
3			1:00–1:50	MTu		ThF	M 301	
4			2:00–2:50	M	W	ThF	M 215	
5			4:00–4:50	MTu	W	F	Ag 216	
6			5:45–7:25 pm		Tu	Th	M 215	
	1	1	8:00–8:50	MTu		ThF	Tech A208	
		2	9:00–9:50	M	W		Wham 208	
			9:00–9:50		Tu	Th	Tech A320	
	2		9:00–9:50	M	W		Wham 208	
			9:00–9:50		Tu	Th	Tech A320	
		3	12:00–12:50	M	W	F	Tech A320	
			12:00–12:50			Th	Tech A322	
	3		2:00–2:50	M	W	Th	Tech A220	
			2:00–2:50		Tu		Wham 205	
		4	2:00–2:50		Tu		Tech A220	
			2:00–2:50			W F	Tech A320	
			2:00–2:50			Th	Wham 210	
	4	5	4:00–4:50	MTu	W	F	Ag 216	
	5	6	7:35–9:15 pm	M	W		Wham 208	
108a–3 Fundamentals of Mathematics 106 or high school								
1	1	1	8:00–8:50	M	W	F	Tech A120	
2	2	2	8:00–8:50	M	W	F	Tech A122	
3	3	3	8:00–8:50	M	W	F	Tech A222	
4	4	4	8:00–8:50	M	W	F	Tech A310	
5	5	5	8:00–8:50	M	W	F	Tech A308	
6	6	6	8:00–8:50	M	W	F	HEc 201	
7	7	7	8:00–8:50	M	W	F	HEc 206	
8	8		8:00–8:50	M	W	F	Comm 120	
9			8:00–8:50	M	W	F	Comm 122	
	9 <sup>3</sup>		10:00–10:50	M	W	F	M 302	



## 64 GENERAL STUDIES AREA D (GSD)

Course	No.—	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time			
108a-3	Fundamentals of Mathematics					106 or high school
		8 <sup>3</sup>	10:00-10:50	Tu Th	Wh 212	
			10:00-10:50		F	Tech A208
10			10:00-10:50	M W	F	Tech A120
11			10:00-10:50	M W	F	Tech A122
12			10:00-10:50	M W	F	Tech A222
13			10:00-10:50	M W	F	Tech A308
14			10:00-10:50	M W	F	Tech A310
15			10:00-10:50	M W	F	Comm 120
16			10:00-10:50	M W	F	Comm 122
17			10:00-10:50	M W	F	HEc 201
18			10:00-10:50	M W	F	HEc 206
19 <sup>3</sup>			11:00-11:50	Tu Th		M 310
			11:00-11:50		F	Wh 107
	10	9	12:00-12:50	M W	F	Tech A120
	11	10	12:00-12:50	M W	F	Tech A122
	12	11	12:00-12:50	M W	F	Tech A222
	13	12	12:00-12:50	M W	F	Tech A310
	14	13	12:00-12:50	M W	F	Tech A308
	15	14	12:00-12:50	M W	F	HEc 201
	16	15	12:00-12:50	M W	F	HEc 206
	17		12:00-12:50	M W	F	Comm 120
20 <sup>3</sup>			2:00-2:50	Tu W	F	Tech A310
21			3:00-3:50	M W	F	Tech A120
22			3:00-3:50	M W	F	Tech A122
23			3:00-3:50	M W	F	Tech A222
24			3:00-3:50	M W	F	Tech A308
25			3:00-3:50	M W	F	Tech A310
26			3:00-3:50	M W	F	Comm 120
27			3:00-3:50	M W	F	Comm 122
28			3:00-3:50	M W	F	HEc 201
29			3:00-3:50	M W	F	HEc 206
30 <sup>3</sup>	18 <sup>3</sup>	16	4:00-4:50	M W	F	Tech A120
31 <sup>3</sup>	19	17	6:00-7:15 pm	M W		Ag 216
32			6:00-7:15 pm	Tu Th		Ag 216
33	20		7:35-8:50 pm	M W		Ag 216
34	21	18	7:35-8:50 pm	Tu Th		Ag 216
108b-3						108a
	1		8:00-8:50	Tu Th		Tech A120
			8:00-8:50		F	Tech A322
	2		10:00-10:50	Tu Th		Ag 216
			10:00-10:50		F	Ag 116
	3	1	10:00-10:50	M W	F	Tech A120
	4	2	10:00-10:50	M W	F	Tech A122
	5	3	10:00-10:50	M W	F	Tech A222
	6	4	10:00-10:50	M W	F	Tech A310
	7	5	10:00-10:50	M W	F	Tech A308
	8	6	10:00-10:50	M W	F	HEc 201
	9	7	10:00-10:50	M W	F	HEc 206
	10		10:00-10:50	M W	F	Comm 120
1			10:00-10:50	Tu Th S		Tech A310
	11		11:00-11:50	Tu Th S		HEc 120
	12 <sup>3</sup>		11:00-11:50	M W	F	HEc 120
2			12:00-12:50	M W	F	Tech A120
3			12:00-12:50	M W	F	Tech A122
4			12:00-12:50	M W	F	Tech A222
5			12:00-12:50	M W	F	Tech A310
6			12:00-12:50	M W	F	Tech A308
7			12:00-12:50	M W	F	HEc 201
8			12:00-12:50	M W	F	HEc 206
9			12:00-12:50	M W	F	Comm 120
10			12:00-12:50	M W	F	Comm 122
	13	8	3:00-3:50	M W	F	Tech A120
	14	9	3:00-3:50	M W	F	Tech A122
	15	10	3:00-3:50	M W	F	Tech A222
	16	11	3:00-3:50	M W	F	Tech A310
	17	12	3:00-3:50	M W	F	Tech A308
	18	13	3:00-3:50	M W	F	HEc 201
	19	14	3:00-3:50	M W	F	HEc 206
	20		3:00-3:50	M W	F	Comm 120
11			4:00-4:50	M W	F	Tech A310
	21 <sup>3</sup>	15 <sup>3</sup>	4:00-4:50	M W	F	Brown 130
12	22 <sup>3</sup>	16 <sup>3</sup>	6:00-7:15 pm	Tu Th		M 102a
13	23	17	7:35-8:50 pm	M W		M 102a
	24		7:35-8:50 pm	Tu Th		M 102a
108c-3						High school or 108b
	1	1	8:00-8:50	M W	F	HEc 306

Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor	
Fall	Winter	Spring	Time				
1	2	2	8:00–8:50	Tu Th	Tech A320		
			8:00–8:50	F	Tech A322		
		3 <sup>3</sup>	9:00–9:50	Tu Th S	Tech A220		
			9:00–9:50	Tu Th	Tech A120		
			9:00–9:50	F	Arena 125		
	2		9:00–9:50	Tu Th	Tech A120		
			9:00–9:50	F	Arena 125		
		4	9:00–9:50	Tu Th	Tech A120		
	2	3		9:00–9:50	F	Tech D131	
			5	10:00–10:50	Tu Th	Tech A320	
			10:00–10:50	F	Comm 122		
			10:00–10:50	M W F	Ag 216		
6		10:00–10:50	M W F	Tech A320			
7		11:00–11:50	Tu Th S	Tech A322			
8		11:00–11:50	Tu Th	Tech A320			
			11:00–11:50	F	Tech A208		
3	4	9 <sup>3</sup>	11:00–11:50	M W F	M 302		
4	5		12:00–12:50	Tu ThF	M 302		
5	6	10	1:00–1:50	TuW F	Ag 216		
		11	1:00–1:50	M Th	Ag 216		
		11	1:00–1:50	Tu	Tech A210		
			1:00–1:50	Tu	Tech A320		
			1:00–1:50	W F	M 302		
			2:00–2:50	Tu	Tech A220		
6	7		2:00–2:50	W F	M 210		
			2:00–2:50	Tu F	Tech A220		
			2:00–2:50	Th	Tech A320		
		12	2:00–2:50	M	M 102		
			2:00–2:50	W F	Tech A322		
		13 <sup>3</sup>	3:00–3:50	MTu Th	Tech A220		
7			4:00–4:50	M W F	M 210		
8	8	14	4:00–4:50	M W F	M 102a		
9	9	15	4:00–4:50	M W F	Tech A210		
		16	6:00–7:15 pm	M W	M 102a		
		17	7:35–8:50 pm	Tu Th	Tech A210		
110–3	Statistics		108b, 114b, or equivalent				
1	1		8:00–8:50	Tu Th	L 121		
			8:00–8:50	M	L 221		
		1	8:00–8:50	Tu Th	L 121		
			8:00–8:50	W	L 201		
2	2	2	11:00–11:50	Tu Th	L 121		
			11:00–11:50	M	L 221		
3			7:35–9:00 pm	M W	L 151		
	3		7:35–9:00 pm	M W	L 151		
		3	7:35–9:00 pm	M W	L 151	Martinsek	
t4	t4	t4	7:35–9:00 pm	Tu Th	L 121		
114b–3	College Algebra and Trigonometry		114a				
1			8:00–8:50	M W F	M 302		
2			9:00–9:50	Tu ThF	Tech A320		
3			10:00–10:50	M W F	M 102a		
4			10:00–10:50	Tu Th	M 102a		
			10:00–10:50	M	M 206		
5			11:00–11:50	Tu Th	M 102a		
			11:00–11:50	F	Ag 116		
6			12:00–12:50	Tu ThF	M 206		
7			1:00–1:50	M W F	Tech A320		
8			1:00–1:50	MTu F	M 201		
9			3:00–3:50	M W F	Tech A210		
10			4:00–4:50	M W F	Tech A320		
11			4:00–4:50	M W F	Brown 130		
12			6:00–7:15 pm	M W	Tech A320		
13			7:35–8:50 pm	Tu Th	Tech A320		
114c–3	College Algebra and Trigonometry		114a				
1			8:00–8:50	Tu Th	Tech A120		
			8:00–8:50	M	Tech D131		
2			9:00–9:50	M W F	M 102a		
	1		10:00–10:50	Tu Th	Tech A120		
			10:00–10:50	F	Tech A220		
3			10:00–10:50	Tu Th	Tech A120		
			10:00–10:50	F	Tech A422		
4			11:00–11:50	M F	M 102a		
			11:00–11:50	W	M 203b		
5	2		12:00–12:50	M W	Tech A208		
			12:00–12:50	Th	Tech A322		
6			1:00–1:50	M W	Tech A310		
			1:00–1:50	Th	Tech A208		
7	3		2:00–2:50	M WTh	M 302		

## 66 GENERAL STUDIES AREA D (GSD)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
114c-3	College Algebra and Trigonometry						114a
8	4	4:00-4:50		M	W	F	Tech A210
9		6:00-7:15 pm		Tu	Th		Tech A320
<sup>3</sup> For elementary education majors only.							
120a-3	Elementary Chinese						
1		10:00-10:50		M	W	F	M 305a Yang
120b-3	Elementary Chinese						
1		10:00-10:50		M	W	F	M 308 Yang
120c-3	Elementary Chinese						
1		10:00-10:50		M	W	F	M 305a Yang
CHIN 120a-1	Chinese Conversation						Concurrent 120a
1		10:00-10:50			Th	Wh 214	Yang
CHIN 120b-1	Chinese Conversation						Concurrent 120b
1		10:00-10:50			Th	Wh 214	Yang
CHIN 120c-1	Chinese Conversation						Concurrent 120c
1		10:00-10:50			Th	Wh 203	Yang
123a-3	Elementary French						
1		8:00-8:50		M	W	F	M 308
	1	9:00-9:50		Tu	Th		M 303
		9:00-9:50			W		M 302
2		9:00-9:50		M	W	F	M 308
	2	10:00-10:50		M	W	F	Wh 113
3		9:00-9:50		Tu			Ag 154
		9:00-9:50			W		M 302
		9:00-9:50				F	Wham 301b
	3	11:00-11:50		MTu	Th		Wh 207
4		9:00-9:50		Tu	Th		Wh 207
		9:00-9:50				F	Wh 107
	4	12:00-12:50		M	W	F	Wh 207
5		10:00-10:50		M	W	F	Wh 207
	T5	1:00-1:50		M	W	F	M 303
6		10:00-10:50		Tu	Th		Wh 207
		10:00-10:50				F	Wh 212
	6	2:00-2:50		M	W	F	Wh 203
T7		10:00-10:50		Tu	Th	S	M 308
	7	3:00-3:50		M	W	F	M 102
8		11:00-11:50		M	W	F	M 308
9		11:00-11:50		M	W	F	M 305a
10		11:00-11:50		Tu	Th	S	M 308
11		12:00-12:50		M	W	F	Wh 207
12		12:00-12:50		M	W	F	M 308
13		12:00-12:50		M	W	F	Wh 214
14		1:00-1:50		M	W	F	Wh 214
15		1:00-1:50		MTu	Th		M 302
16		2:00-2:50		M	W	F	Wh 214
17		2:00-2:50		MTu	Th		Wh 113
18		3:00-3:50		M	W	F	HEc 118
19		3:00-3:50		MTu	Th		Gym 204
20		3:00-3:50		M	W	F	M 302
21		4:00-4:50		M	W	F	M 308
22		4:00-4:50		MTu	Th		Wh 203
23		6:00-7:25 pm		Tu	Th		Wh 207
T24		6:00-7:25 pm		M	W		M 308
FR 123a-1	French Conversation						Concurrent 123a
1		8:00-8:50			Th		M 202
	T1	9:00-9:50			Th		To be arranged
2		9:00-9:50		Tu			M 308
	2	10:00-10:50		Tu			M 202
T3		10:00-10:50			W		To be arranged
	3	11:00-11:50			W		Ag 148
4		10:00-10:50			Th		Wh 203
	4	2:00-2:50			W		Wh 113
5		11:00-11:50		Tu			HEc 206
T6		12:00-12:50		Tu			M 308
7		12:00-12:50			Th		Wh 207
8		1:00-1:50			W		M 202
9		2:00-2:50		Tu			M 308
10		3:00-3:50			Th		M 202
T11		4:00-4:50			Th		M 308
12		6:00-6:50		M			M 202
123b-3	Elementary French						123a
1		8:00-8:50		M	W	F	Wh 113
	1	9:00-9:50		M	W	F	HEc 104
T2		8:00-8:50		MTu	Th		Pierce 130
	2	10:00-10:50		Tu	Th		HEc 104
		10:00-10:50			W		HEc 106
3		9:00-9:50		M	W	F	Wh 113



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
		3	11:00–11:50	M	W	F	Wh 207
	4		9:00–9:50	Tu	Th	S	Wh 207
		4	12:00–12:50	M	W	F	Wh 207
	5		10:00–10:50	M	W	F	Wh 203
		5	1:00–1:50	M	W	F	Wh 214
	6		10:00–10:50	Tu	Th	S	Wh 113
	t6		3:00–3:50	MTu	Th		To be arranged
	7		11:00–11:50	M	W	F	M 303
	8		11:00–11:50	Tu	Th		M 303
			11:00–11:50		W		M 215
	9		12:00–12:50	M	W	F	Wh 113
	10		12:00–12:50	MTu	Th		Wh 203
	11		1:00–1:50	M	W	F	Wh 207
	12		1:00–1:50	MTu	Th		HEc 120
	13		2:00–2:50	M	W	F	M 303
	14		2:00–2:50	MTu	Th		Wh 113
	15		3:00–3:50	M	W	F	HEc 120
	16		3:00–3:50	MTu	Th		HEc 106
	17		4:00–4:50	M	W	F	Wh 207
	18		4:00–4:50	MTu	Th		Wh 113
	19		6:00–7:25 pm	M	W		Wh 207
	20		6:00–7:25 pm	Tu	Th		Wh 207
	t21		7:35–9:00 pm	Tu	Th		Wh 207
	t22		12:00–12:50	M	W	F	Pierce 130
<b>FR 123b–1</b>		<b>French Conversation</b>					
	1		8:00–8:50	Tu			Wh 207
		1	9:00–9:50		Th		HEc 104
	2		9:00–9:50		W		M 202
		t2	10:00–10:50		W		Wh 207
	3		10:00–10:50		Th		Wh 207
		3	11:00–11:50	Tu			M 202
	4		11:00–11:50	Tu			HEc 306
		4	1:00–1:50		Th		M 202
	5		12:00–12:50	Tu			Wh 207
	6		12:00–12:50		Th		Wh 207
	7		1:00–1:50		W		Wh 113
	8		2:00–2:50			F	Wh 113
	t9		3:00–3:50		Th		Wh 207
	10		3:00–3:50		W		Wh 113
	t11		4:00–4:50	Tu			Wh 207
<b>123c–3</b>		<b>Elementary French</b>					
	t1		10:00–10:50	M	W	F	M 308
		1	8:00–8:50	M	W	F	Wh 207
	2		11:00–11:50	Tu	Th		Wh 214
			11:00–11:50			F	Wh 113
		t2	8:00–8:50	Tu	Th	S	Wh 207
	3		1:00–1:50	M	W	F	M 308
		3	9:00–9:50	M	W	F	Wh 113
	4		2:00–2:50	M	W	F	M 308
		4	9:00–9:50	MTu	Th		Wh 207
	5		3:00–3:50	MTu	Th		M 308
		5	10:00–10:50	M	W	F	HEc 104
	6		10:00–10:50	Tu	Th		Wh 214
			10:00–10:50			F	Wh 107
	7		11:00–11:50	M	W	F	Tech D131
	8		11:00–11:50	Tu	Th		HEc 104
			11:00–11:50		W		HEc 306
	9		12:00–12:50	M	W	F	Wh 113
	10		12:00–12:50	M	W	F	Tech A208
	11		1:00–1:50	M	W	F	Wh 207
	12		1:00–1:50	MTu	Th		HEc 104
	13		2:00–2:50	M	W	F	Wh 207
	14		3:00–3:50	M	W	F	M 305a
	15		3:00–3:50	M	W	F	Wh 113
	16		3:00–3:50	MTu	Th		Wham 328
	17		4:00–4:50	M	W	F	Wh 207
	18		4:00–4:50	MTu	Th		Wh 107
	t19		6:00–7:25 pm	M	W		Wh 207
	20		6:00–7:25 pm	Tu	Th		Wh 207
<b>FR 123c–1</b>		<b>French Conversation</b>					
	1		11:00–11:50		W		M 303
		1	9:00–9:50	Tu			HEc 104
	t2		1:00–1:50	Tu			M 308
		2	10:00–10:50		Th		M 202
	3		11:00–11:50		W		Wh 203
	4		12:00–12:50	Tu			Wh 207
	5		12:00–12:50		Th		Wh 207

## 68 GENERAL STUDIES AREA D (GSD)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>FR 123c-1</b>		<b>French Conversation</b>					<b>Concurrent 123c</b>
	6	1:00-1:50			F	HEc 104	
	7	2:00-2:50		Tu		Wh 207	
	T8	3:00-3:50			W	Wh 207	
	9	4:00-4:50		Tu		Wh 207	
	T10	4:00-4:50			Th	Wh 207	
<b>126a-3</b>		<b>Elementary German</b>					
	1	8:00-8:50		M	W	F	Wh 212
	1	8:00-8:50		M	W	F	M 308
	2	8:00-8:50		M	W	F	HEc 106
	2	9:00-9:50		M	W	F	M 303
	3	9:00-9:50		M	W	F	HEc 303
	3	1:00-1:50		M	W	F	HEc 106
	4	9:00-9:50			W	F	HEc 106
		9:00-9:50		M			Ag 116
	4	2:00-2:50		M	W	F	M 308
	T5	9:00-9:50			Tu	Th S	Pierce 130
	T5	3:00-3:50		M	W	F	M 308
	6	10:00-10:50		M	W	F	M 305a
	7	11:00-11:50		M	W	F	M 310
	T8	11:00-11:50			Tu	Th S	M 305a
	9	12:00-12:50		M	W	F	Wh 212
	T10	12:00-12:50		M	W	F	M 305a
	11	1:00-1:50		M	W	F	HEc 303
	12	1:00-1:50		M	W	F	P 301
	13	2:00-2:50		M	W	F	HEc 206
	14	2:00-2:50		M	W	F	HEc 106
	15	3:00-3:50		M	W	F	Wh 212
	16	3:00-3:50		M	W	F	HEc 106
	17	4:00-4:50		M	W	F	Wh 212
	T18	4:00-4:50		M	W	F	M 305a
	19	6:00-7:25 pm		M	W		Wh 212
	T20	6:00-7:25 pm			Tu	Th	M 305a
	21	7:35-9:00 pm		M	W		Wh 212
	T22	7:35-9:00 pm			Tu	Th	M 305a
<b>GER 126a-1</b>		<b>German Conversation</b>					<b>Concurrent 126a</b>
	1	8:00-8:50		Tu			Wh 212
	1	9:00-9:50			Th		M 308
	2	9:00-9:50		Tu			M 305a
	2	1:00-1:50			Th		M 308
	3	11:00-11:50			Th		HEc 106
	T3	2:00-2:50			Th		M 308
	T4	12:00-12:50		Tu			Wh 212
	5	1:00-1:50			Th		M 305a
	6	2:00-2:50			Th		M 305a
	7	3:00-3:50			Th		M 305a
	T8	4:00-4:50			Th		M 305a
<b>126b-3</b>		<b>Elementary German</b>					<b>126a</b>
	1 *	8:00-8:50		M	W	F	Wh 212
	1	8:00-8:50		M	W	F	M 306a
	2	8:00-8:50		M	W	F	HEc 104
	2	9:00-9:50		M	W	F	M 305a
	3	9:00-9:50		M	W	F	HEc 104
	3	1:00-1:50		M	W	F	P 301
	4	9:00-9:50		M	W	F	M 308
	T4	2:00-2:50		M	W	F	Wh 113
	T5	9:00-9:50			Tu	Th S	To be arranged
	6	10:00-10:50		M	W	F	Wh 212
	7	11:00-11:50		M	W	F	M 308
	8	11:00-11:50		M	W	F	HEc 106
	9	12:00-12:50		M	W	F	Wh 212
	T10	12:00-12:50		M	W	F	HEc 104
	11	1:00-1:50		M	W	F	HEc 104
	12	1:00-1:50		M	W	F	M 308
	13	2:00-2:50		M	W	F	HEc 104
	14	2:00-2:50		M	W	F	HEc 106
	15	3:00-3:50		M	W	F	Wh 212
	T16	3:00-3:50		M	W	F	HEc 104
	17	4:00-4:50		M	W	F	Wh 212
	T18	4:00-4:50		M	W	F	HEc 104
	19	6:00-7:25 pm		M	W		Wh 212
	T20	6:00-7:25 pm			Tu	Th	HEc 104
* (Special section to be taken with GSD 126b section 1)							
<b>GER 126b-1</b>		<b>German Conversation</b>					<b>Concurrent 126b</b>
	1 *	8:00-8:50		Tu	Th		Wh 212
	1	9:00-9:50		Tu			M 303
	2	9:00-9:50		Tu			HEc 104
	2	1:00-1:50		Tu			M 303

Course No.	Hours			Descriptive Title	Days	Place	Prerequisite Instructor
	Fall	Winter	Spring				

3				11:00-11:50	Th	M 308	
			t3	2:00-2:50	Th	M 303	
t4				12:00-12:50	Th	Wh 212	
5				1:00-1:50	Tu	HEc 104	
6				2:00-2:50	Tu	HEc 104	
t7				3:00-3:50	Th	Wh 212	
t8				4:00-4:50	Th	Wh 212	

\* (Special section to be taken with German 126c section 1)

126c-3	Elementary	German					126b
1				8:00-8:50	M W F	M 305a	
		1 *		8:00-8:50	M W F	Wh 212	
2				9:00-9:50	M W F	M 305a	
		2		8:00-8:50	M W F	M 303	
3				1:00-1:50	M W F	M 305a	
		3		9:00-9:50	M W F	M 303	
t4				2:00-2:50	M W F	To be arranged	
		t4		9:00-9:50	M W F	To be arranged	
t5				3:00-3:50	M W F	M 305a	
		5		10:00-10:50	M W F	Wh 212	
		6		11:00-11:50	M W F	Arena 123	
		t7		11:00-11:50	M W F	To be arranged	
		8		12:00-12:50	M W F	Wh 212	
		t9		12:00-12:50	M W F	M 303	
		10		1:00-1:50	M W F	M 303	
		11		1:00-1:50	M W F	Gym 204	
		12		2:00-2:50	M W F	M 303	
		t13		2:00-2:50	M W F	To be arranged	
		14		3:00-3:50	M W F	M 303	
		t15		3:00-3:50	M W F	Wh 212	
		16		4:00-4:50	M W F	Wh 212	
		t17		4:00-4:50	M W F	Pierce 130	
		18		6:00-7:25 pm	M W	Wh 212	

\* (Special section to be taken with GSD 126c section 1)

GER 126c-1	German	Conversation					Concurrent 126c
1				9:00-9:50	Tu	M 209	
		1 *		8:00-8:50	Tu Th	Wh 212	
2				1:00-1:50	Th	Wh 212	
		2		9:00-9:50	Th	M 303	
t3				2:00-2:50	Th	Wh 212	
		3		11:00-11:50	Tu	Wh 107	
		t4		12:00-12:50	Th	Wh 212	
		t5		1:00-1:50	Th	M 303	
		6		2:00-2:50	Tu	M 303	
		t7		3:00-3:50	Th	Wh 212	
		t8		4:00-4:50	Th	Wh 212	

130a-3	Elementary	Greek					
1				8:00-8:50	Tu W F	Wh 203	

130b-3	Elementary	Greek					130a
1				8:00-8:50	Tu W F	Wh 203	

130c-3	Elementary	Greek					130b
1				8:00-8:50	Tu W F	Wh 203	

133a-3	Elementary	Latin					
1				1:00-1:50	MTu Th	Wh 203	

133b-3	Elementary	Latin					133a
1				1:00-1:50	MTu Th	Wh 203	

133c-3	Elementary	Latin					133b
1				1:00-1:50	MTu Th	Wh 203	

135a-3	Elementary	Portuguese					
1				10:00-10:50	MTu Th	HEc 122	

135b-3	Elementary	Portuguese					135a
1				10:00-10:50	MTu Th	HEc 120	

135c-3	Elementary	Portuguese					135b
1				10:00-10:50	MTu Th	Pierce 130	

PORT 135a-1	Portuguese	Conversation					Concurrent 135a
1				10:00-10:50	W	HEc 122	

PORT 135b-1	Portuguese	Conversation					Concurrent 135b
1				10:00-10:50	W	HEc 120	

PORT 135c-1	Portuguese	Conversation					Concurrent 135c
1				10:00-10:50	W	Pierce 130	

144a-3	Elementary	Italian					
1				9:00-9:50	M W F	Pierce 130	
t2				6:00-6:50 pm	Tu Th	To be arranged	

144b-3	Elementary	Italian					144a
1				9:00-9:50	M W F	Pierce 130	
t2				6:00-6:50 pm	Tu Th	To be arranged	

144c-3	Elementary	Italian					144b
1				9:00-9:50	M W F	Wh 214	
t2				6:00-6:50 pm	Tu Th	To be arranged	



## 70 GENERAL STUDIES AREA D (GSD)

Course No.—Hours		Descriptive Title	Days			Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
ITAL 144a-1		Italian Conversation				Concurrent 144a	
1		9:00-9:50	Tu		Wh 107		
t2		6:00-7:25 pm	W		To be arranged		
ITAL 144b-1		Italian Conversation				Concurrent 144b	
1		9:00-9:50	Tu		Wh 107		
t2		6:00-7:25 pm	W		To be arranged		
ITAL 144c-1		Italian Conversation				Concurrent 144c	
1		9:00-9:50	Tu		Wham 301a		
t2		6:00-7:25 pm	W		To be arranged		
136a-3		Elementary Russian					
1		10:00-10:50	M	W	F	Pierce 130	
2		2:00-2:50	M	W	F	Tech A122	
3		6:00-7:25 pm	Tu	Th		Wh 214	
RUSS 136a-3		Russian Conversation				Concurrent 136a	
1		10:00-10:50		Th	Wham 329		
2		2:00-2:50		Th	Wham 301a		
3		6:00-6:50 pm	M		Wham 301a		
136b-3		Elementary Russian				136a	
1		10:00-10:50	M	W	F	Pierce 130	
2		2:00-2:50	M	W	F	Pierce 130	
3		6:00-7:25 pm	Tu	Th		M 308	
RUSS 136b-1		Russian Conversation				Concurrent 136b	
1		10:00-10:50		Th	Wham 201		
2		2:00-2:50		Th	Abbott 129		
3		6:00-6:50 pm	M		M 308		
136c-3		Elementary Russian				136b	
	1	10:00-10:50	M	W	F	Wh 214	
	2	2:00-2:50	M	W	F	Wham 321	
	3	6:00-7:25 pm	Tu	Th		Wh 212	
RUSS 136c-1		Russian Conversation				Concurrent 136c	
	1	10:00-10:50		Th	M 305a		
	2	2:00-2:50		Th	Wham 301a		
	3	6:00-6:50 pm	M		Wham 301a		
140a-3		Elementary Spanish					
1		11:00-11:50	M	W	F	HEc 104	
	1	8:00-8:50	M	W	F	Wh 214	
		8:00-8:50	M	W	F	Wh 214	
2		8:00-8:50	M	W	F	Wh 214	
	2	9:00-9:50	M	W	F	M 305a	
	t2	3:00-3:50	M	W	F	Wh 214	
3		9:00-9:50	M	W	F	M 303	
	3	10:00-10:50	M	W	F	Wh 214	
4		10:00-10:50	M	W	F	Wh 214	
	4	11:00-11:50	Tu	WTh		Pierce 130	
5		10:00-10:50	Tu	Th	S	Pierce 130	
	5	2:00-2:50	M	W	F	Wh 214	
6		11:00-11:50	Tu	Th	S	Pierce 130	
	6	3:00-3:50	M	W	F	Wh 214	
7		11:00-11:50	M	W	F	Wh 214	
8		12:00-12:50	M	W	F	HEc 104	
9		1:00-1:50	M	W	F	M 303	
10		1:00-1:50	MTu	Th		Gym 204	
11		2:00-2:50	M	W	F	M 303	
12		2:00-2:50	MTu	Th		Comm 114	
13		3:00-3:50	M	W	F	HEc 104	
14		3:00-3:50	MTu	Th		M 303	
15		4:00-4:50	M	W	F	M 303	
16		6:00-7:25 pm	M	W		HEc 104	
17		6:00-7:25 pm	Tu	Th		HEc 104	
t18		2:00-2:50	MTu	Th		Pierce 130	
t19		3:00-3:50	MTu	Th		Pierce 130	
SPAN 140a-1		Spanish Conversation				Concurrent 140a	
1		11:00-11:50	Tu		HEc 104		
	1	9:00-9:50	Tu		M 202		
		9:00-9:50		Th	M 202		
2		9:00-9:50	Tu		HEc 104		
	2	10:00-10:50		Th	M 202		
3		10:00-10:50		Th	M 202		
	3	2:00-2:50		Th	M 202		
4		2:00-2:50		Th	M 202		
	t4	3:00-3:50	Tu		To be arranged		
5		3:00-3:50		Th	Wham 301a		
6		3:00-3:50	Tu		M 202		
140b-3		Elementary Spanish (Special Section)				140a	
	1	11:00-11:50	M	W	F	M 305a	
		11:00-11:50	M	W	F	M 308	
t1		8:00-8:50	M	W	F	Pierce 130	
	2	8:00-8:50	M	W	F	M 305a	

Course No.—Hours		Descriptive Title		Days			Place	Prerequisite Instructor
Fall	Winter	Spring	Time					
		2	8:00–8:50	M	W	F	M 308	
	3		9:00–9:50	Tu	Th	S	M 305a	
		3	6:00–7:25 pm	Tu	Th		M 308	
	4		10:00–10:50	Tu	Th		M 305a	
			10:00–10:50	M			P 309	
		4	10:00–10:50	M	W	F	M 308	
	5		11:00–11:50	M	W	F	Wh 214	
	6		11:00–11:50	Tu	Th	S	Wh 214	
	7		12:00–12:50	M	W	F	M 305a	
	8		12:00–12:50	M	W	F	Wh 214	
	9		1:00–1:50	M	W	F	Wh 214	
	10		2:00–2:50	MTu	Th		M 305a	
	11		2:00–2:50	M	W	F	P 301	
	12		2:00–2:50	M	W	F	Wham 321	
	13		3:00–3:50	MTu	Th		M 305a	
	14		3:00–3:50	M	W	F	Pierce 130	
	15		6:00–7:25 pm	Tu	Th		Wh 214	
	16		6:00–7:25 pm	M	W		Wh 214	
	t17		1:00–1:50	M	W	F	M 305a	
	t18		3:00–3:50	M	W	F	To be arranged	
	t19		4:00–4:50	M	W	F	M 305a	
SPAN 140b–1		Spanish Conversation					Concurrent 140b	
	1		11:00–11:50	Tu	Th		Wh 212	
		1	9:00–9:50	Tu			M 202	
	2		9:00–9:50		W		Wham 301a	
		2	1:00–1:50	Tu			M 202	
	3		10:00–10:50		Th		Comm 148	
		t3	2:00–2:50		W		M 202	
	4		2:00–2:50	Tu			Wh 214	
		t4	3:00–3:50		W		M 202	
	5		3:00–3:50		Th		Wh 214	
	t6		4:00–4:50		W		M 202	
140c–3		Elementary Spanish					140b	
	1		11:00–11:50	Tu	Th	F	M 303	
		1	11:00–11:50	M	W	F	Gym 204	
		1	11:00–11:50	M	W	F	Wh 113	
	2		4:00–4:50	M	W	F	Wh 214	
		2	9:00–9:50	MTu	Th		Wham 312	
		3	9:00–9:50	M	W	F	M 308	
		4	8:00–8:50	M	W	F	Wh 113	
		5	10:00–10:50	Tu	Th		Wh 113	
			10:00–10:50			F	Wh 207	
		6	10:00–10:50	M	W	F	Wh 113	
		7	11:00–11:50	M	W	F	Wh 214	
		8	11:00–11:50	M	W	F	Comm 122	
		9	12:00–12:50	M	W	F	M 308	
		10	12:00–12:50	M	W	F	Wh 214	
		11	1:00–1:50	M	W	F	M 308	
		12	1:00–1:50	M	W	F	Wh 113	
		13	2:00–2:50	M	W	F	M 308	
		14	3:00–3:50	M	W	F	M 308	
		15	6:00–7:25 pm	M	W		Wh 214	
		16	6:00–7:25 pm	Tu	Th		Wh 214	
	t17		To be arranged					
	t18		To be arranged					
SPAN 140c–1		Spanish Conversation					Concurrent 140c	
	1		11:00–11:50		W		M 202	
		1	11:00–11:50	Tu			M 305a	
		1	11:00–11:50		Th		Comm 148	
		2	10:00–10:50		Th		Comm 148	
		3	1:00–1:50		W		M 202	
		4	2:00–2:50	Tu			M 202	
	t5		3:00–3:50	M			M 202	

### GENERAL STUDIES AREA E — HEALTH AND PHYSICAL DEVELOPMENT (GSE)

100a–1		Restricted Physical Education						
	1		10:00–10:50	M	W	F	Arena	Greene
	2		11:00–11:50	M	W	F	Arena	Okita
100b–1		Restricted Physical Education						
	1		10:00–10:50	M	W	F	Arena	Greene
	2		11:00–11:50	M	W	F	Arena	Okita
100c–1		Restricted Physical Education						
	1		10:00–10:50	M	W	F	Arena	Greene
	2		11:00–11:50	M	W	F	Arena	Okita

## 72 GENERAL STUDIES AREA E (GSE)

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructors
Fall	Winter	Spring	Time		
<b>101a-1 Beginning Swimming</b>					
1	1	8:00-8:40	M W F	Pool	Casey
2	2	8:40-9:20	M W F	Pool	Casey
3	3	9:20-10:00	M W F	Pool	Casey
4	4	10:00-10:40	M W F	Pool	
5		10:40-11:20	M W F	Pool	
6		11:20-12:00	M W F	Pool	
	5	7:00-7:50 pm	MTu Th	Pool	
	6	8:00-8:50 pm	MTu Th	Pool	
		1 10:00-10:40	M W F	Pool	
		2 10:40-11:20	M W F	Pool	
		3 11:20-12:00	M W F	Pool	
		4 12:00-12:50	M W F	Pool	
		5 4:00-4:50	MTuWTh	Pool (meets first nine weeks only)	
<b>101b-1 Intermediate Swimming</b>					
t1	t1	t1	12:00-12:50	Tu Th	Pool
2	2		7:00-8:50 pm	W	Pool
	3	2	8:00-9:50	S	Pool
	4	3	10:00-11:50	S	Pool
<b>102-1 Physical Fitness</b>					
t1	t1	t1	8:00-8:50	M F	Arena
			8:00-8:50	Tu	L 161
2	2	2	8:00-8:50	M F	Arena
			8:00-8:50	Tu	L 161
t3	t3	t3	8:00-8:50	Tu Th	Arena
			9:00-9:50	M	L 161
4	4	4	8:00-8:50	Tu Th	Arena
			9:00-9:50	M	L 161
t5	t5	t5	8:00-8:50	W S	Arena
			8:00-8:50	Tu	L 161
6	6	6	8:00-8:50	W S	Arena
			8:00-8:50	Tu	L 161
t7	t7	t7	9:00-9:50	M F	Arena
			8:00-8:50	Tu	L 161
8	8	8	9:00-9:50	M F	Arena
			8:00-8:50	Tu	L 161
t9	t9	t9	9:00-9:50	Tu Th	Arena
			9:00-9:50	M	L 161
10	10	10	9:00-9:50	Tu Th	Arena
			9:00-9:50	M	L 161
t11	t11	t11	9:00-9:50	W S	Arena
			8:00-8:50	Tu	L 161
12	12	12	9:00-9:50	W S	Arena
			9:00-9:50	M	L 161
t13	t13	t13	10:00-10:50	M F	Arena
			9:00-9:50	M	L 161
14*	14	14	10:00-10:50	M F	Arena
			11:00-11:50	W	L 151
t15	t15	t15	10:00-10:50	Tu Th	Arena
			9:00-9:50	M	L 161
16*	16	16	10:00-10:50	Tu Th	Arena
			11:00-11:50	W	L 151
t17	t17	t17	10:00-10:50	W S	Arena
			9:00-9:50	M	L 161
18	18	18	10:00-10:50	W S	Arena
			8:00-8:50	Tu	L 161
19*	19	19	11:00-11:50	M F	Arena
			11:00-11:50	W	L 161
20*	20	20	11:00-11:50	M F	Arena
			11:00-11:50	W	L 161
t21*	t21	t21	11:00-11:50	Tu Th	Arena
			11:00-11:50	W	L 161
22*	22	22	11:00-11:50	Tu Th	Arena
			11:00-11:50	W	L 161
t23	t23	t23	11:00-11:50	W S	Arena
			8:00-8:50	Tu	L 161
24	24	24	11:00-11:50	W S	Arena
			9:00-9:50	M	L 161
t25*	t25	t25	12:00-12:50	M W	Arena
			11:00-11:50	W	L 161
26	26	26	12:00-12:50	M W	Arena
			3:00-3:50	Th	L 161
t27	t27	t27	12:00-12:50	Tu Th	Arena
			3:00-3:50	Th	L 161
28*	28	28	12:00-12:50	Tu Th	Arena
			11:00-11:50	W	L 161

Greene

Okita



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
t29*	t29	t29	1:00–1:50	M	W	Arena	
			11:0–11:50		W	L 161	
t30	t30	t30	1:00–1:50	M	W	Arena	
			3:00–3:50		Th	L 161	
t31	t31	t31	1:00–1:50	Tu	Th	Arena	
			3:00–3:50		Th	L 161	
t32	t32	t32	1:00–1:50	Tu	Th	Arena	
			3:00–3:50		Th	L 161	
t33	t33	t33	2:00–2:50	M	Th	Arena	
			3:00–3:50		Th	L 161	
t34	t34	t34	2:00–2:50	M	Th	Arena	
			3:00–3:50		Th	L 161	
t35	t35	t35	2:00–2:50	Tu	F	Arena	
			3:00–3:50		Th	L 161	
t36	t36	t36	2:00–2:50	Tu	F	Arena	
			3:00–3:50		Th	L 161	
t37	t37	t37	1:00–1:50		F	Arena	
			2:00–2:50	W		Arena	
			3:00–3:50		Th	L 161	
* Will meet for the lecture period in Wham 105.							
103a–1	Square and Social Dance						
1			11:00–11:50	M	W	S Gym 114	
t2			12:00–12:50	M	W	F Gym 114	
t3			3:00–4:15	Tu	Th	Gym 114	
t4			4:00–4:50	M	W	F Gym 114	
t5			4:00–5:30	Tu	Th	Gym 114	
t6			5:00–5:50	M	W	F Gym 114	
t7			6:00–6:50 pm	M	W	Th Gym 114	
	1		10:00–11:15	Tu	Th	Gym 114	
	t2		12:00–1:15	Tu	Th	Gym 114	
	t3		1:00–2:15	Tu	Th	Gym 114	
	4		3:00–3:50	M	W	F Gym 114	
	5		4:00–4:50	M	W	F Gym 114	
	6		4:00–5:15	Tu	Th	Gym 114	
	t7		5:00–5:50	M	W	F Gym 114	
	t8		5:00–6:15	Tu	Th	Gym 114	
	t9		7:00–8:30 pm	M	W	Gym 114	
		1	8:00–9:15	Tu	Th	Gym 114	
		t2	9:00–10:15	Tu	Th	Gym 114	
		t3	1:00–2:15	Tu	Th	Gym 114	
		t4	2:00–3:15	Tu	Th	Gym 114	
		t5	4:00–5:15	Tu	Th	Gym 114	
		t6	7:00–7:50 pm	M	W	Th Gym 114	
103c–1	Social Dance						
	t1		11:00–12:15	Tu	Th	Gym 114	
104a–1	Individual and Team Activity—Archery						
		t1	1:00–1:50	M	W	F Arena	
		t2	2:00–2:50	M	W	F Arena	
		t3	3:00–3:50	M	W	F Arena	
104b–1	Individual and Team Activity—Badminton						
		t1	8:00–8:50	M	W	F Arena	
		t2	8:00–8:50	Tu	Th	S Arena	
104c–1	Individual and Team Activity—Basketball						
		1	8:00–8:50	M	W	F Arena	
		2	t1 8:00–8:50	Tu	Th	S Arena	Holder
		3	8:40–9:30	M	W	F Arena	
		4	t2 8:40–9:30	Tu	Th	S Arena	Holder
		5	9:20–10:10	M	W	F Arena	
		6	t3 9:20–10:10	Tu	Th	S Arena	Holder
		7	10:00–10:50	Tu	Th	S Arena	
		8	10:00–11:50		F	Arena	
			11:00–11:50		S	Arena	
		9	12:00–1:30	Tu	Th	Arena	
		10	1:00–1:50	M	W	F Arena	
		t11	1:40–2:30	M	W	F Arena	
		t12	1:00–2:30	Tu	Th	Arena	
		t13	2:20–3:00	M	W	F Arena	
		t14	2:00–3:30	Tu	Th	Arena	
104d–1	Individual and Team Activity—Bowling (Fee required)						
	1	1	8:00–8:50	M	W	F Bowling Alley	Hartzog
						(Staff in Winter)	
	2	2	8:00–8:50	Tu	Th	S Bowling Alley	
	3	3	9:00–9:50	M	W	F Bowling Alley	Hartzog
						(Staff in Winter)	
	4	4	9:00–9:50	Tu	Th	S Bowling Alley	
	5	5	10:00–10:50	M	W	F Bowling Alley	Lutz
	6	6	10:00–10:50	Tu	Th	S Bowling Alley	

## 74 GENERAL STUDIES AREA E (GSE)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>104d-1 Individual and Team Activity—Bowling (Fee required)</b>							
7	7	7	11:00-11:50	M	W	F	Bowling Alley Lutz
8	8	8	11:00-11:50	Tu	Th	S	Bowling Alley
9	9	9	12:00-12:50	M	W	F	Bowling Alley
10	10	10	12:00-1:30	Tu	Th		Bowling Alley
T11	T11	T11	1:00-1:50	M	W	F	Bowling Alley
T12	T12	T12	1:30-3:00	Tu	Th		Bowling Alley
T13	T13	T13	2:00-2:50	M	W	F	Bowling Alley
T14	T14	T14	3:00-3:50	M	W	F	Bowling Alley
T15	T15	T15	3:00-4:30	Tu	Th		Bowling Alley
	T16		4:00-4:50	M	W	F	Bowling Alley
	T17		4:30-6:00	Tu	Th		Bowling Alley
<b>104e-1 Individual and Team Activity—Golf (Fall Term all classes meet first nine weeks)</b>							
1			8:00-9:50		W		Arena Iubelt
			8:00-9:50			S	Arena 125
2			10:00-10:50	MTu	Th	F	Arena
3			10:00-11:50		W		Arena
			10:00-11:50			S	Arena 125
4			11:00-11:50	MTu	Th	F	Arena
5			12:00-12:50	MTu	W	Th	Arena Holder
6			1:00-2:50	M	W		Arena Holder
7			1:00-1:50	Tu	Th		Arena
			12:00-1:50			F	Arena 125
T8			3:00-3:50	M	W		Arena
			2:00-3:50			F	Arena 125
T9			2:00-3:50	Tu	Th		Arena 125
T10			4:00-4:50	MTu	W	Th	Arena 125
	1		8:00-9:50			F	Arena
			8:00-8:50			S	Arena 125
	2		10:00-10:50	MTu	Th		Arena Mills
	3		10:00-11:50		W		Arena
			10:00-10:50			F	Arena
	4		11:00-11:50	MTu	Th		Arena Mills
	5		12:00-12:50	MTu	Th		Arena
	6		12:00-12:50		W		Arena
			11:00-12:50			F	Arena
	7		1:00-1:50	M	W		Arena Iubelt
			1:00-1:50			F	Arena 125
	8		1:00-2:50	Tu			Arena
			1:00-1:50		Th		Arena
	9		2:00-2:50	M	W		Arena
			2:00-2:50			F	Arena 125
	T10		3:00-3:50	M	W	F	Arena 125
	T11		3:00-3:50	Tu			Arena 125
			3:00-4:50		Th		Arena 125
	T12		4:00-4:50	M	W	F	Arena 125
<b>104f-1 Individual and Team Activity—Soccer</b>							
T1			10:00-10:50	M	W	F	Arena
T2			10:00-10:50	Tu	Th	S	Arena
T3			11:00-11:50	M	W	F	Arena
T4			11:00-11:50	Tu	Th	S	Arena
<b>104h-1 Individual and Team Activity—Tennis (Fall Term all classes meet first nine weeks)</b>							
1			8:00-9:50		W	S	Tennis LeFevre
2			10:00-10:50	MTu	Th	F	Tennis Iubelt
3			10:00-11:50		W	S	Tennis LeFevre
T4			11:00-11:50	MTu	Th	F	Tennis
T5			12:00-1:50	M			Tennis
			12:00-12:50	Tu	Th		Tennis
6			12:00-1:50		W	F	Tennis
7			1:00-2:50	Tu	Th		Tennis Iubelt
T8			2:00-3:50	M			Tennis
			2:00-2:50		W	F	Tennis
	T1		8:00-8:50			F	Tennis
			8:00-9:50			S	Tennis
	2		9:00-9:50	M	W	F	Tennis Iubelt
	3		9:00-10:15	Tu	Th		Tennis
	4		10:00-10:50	M	W	F	Tennis Iubelt
	5		10:00-11:15	Tu	Th		Tennis
	6		11:00-11:50	M	W	F	Tennis Martin
	7		11:00-12:15	Tu	Th		Tennis
	8		12:00-12:50	M	W	F	Tennis Martin
	9		12:00-1:15	Tu	Th		Tennis
	10		1:00-1:50	M	W		Tennis
			1:00-1:50			F	Arena 123
	11		1:00-2:15	Tu	Th		Tennis

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
		12	2:00-2:50	M	W	F	Arena 123
		T13	2:00-3:15	Tu	Th		Tennis
104i-1	Individual and Team Activities—Volleyball (Fall Term all classes meet first nine weeks)						
	T1		1:00-2:50	M	W		Arena
	T2		1:00-2:50	Tu	Th		Arena
104n-1	Individual and Team Activity—Cross-Country						
	T1		1:00-1:50	MTu	Th		
	T2		2:00-2:50	MTu	Th		
	T3		3:00-3:50	MTu	Th		
104r-1	Individual and Team Activity—Stunts and Tumbling						
	1	1	12:00-12:50	M	W	F	Arena
	2	2	1:00-1:50	M	W	F	Arena
	3	3	2:00-2:50	M	W	F	Arena
104s-1	Individual and Team Activity—Gymnastics						
	1	1	10:00-10:50	M	W	F	Arena
	2	2	10:00-10:50	Tu	Th	S	Arena
		3	11:00-11:50	M	W	F	Arena
	T4		11:00-11:50	Tu	Th	S	Arena
	T5		12:00-1:15	Tu	Th		Arena
	T6		1:00-2:15	Tu	Th		Arena
	T7	2	2:00-3:15	Tu	Th		Arena
104u-1	Individual and Team Activity—Wrestling (Fall Term meets first nine weeks only)						
	1		8:00-8:50	MTuWTh			Arena
	2		9:00-9:50	MTuWTh			Arena
	3		11:00-11:50	MTuWTh			Arena
	T4		12:00-12:50	MTuWTh			Arena
		1	10:00-10:50	M	W	F	Arena
	T2		10:00-10:50	Tu	Th	S	Arena
		3	11:00-11:50	M	W	F	Arena
	T4		11:00-11:50	Tu	Th	S	Arena
	T5		12:00-1:15	Tu	Th		Arena
	T6		1:00-2:15	Tu	Th		Arena
	T7		2:00-3:15	Tu	Th		Arena
104w-1	Individual and Team Activity—Judo						
	T1	T1	5:30-7:00 pm	M	W		Arena
104x-1	Individual and Team Activity—Handball (Fall Term meets first nine weeks only)						
	1		9:00-9:50	MTuWTh			Handball Cts
	2		10:00-10:50	MTuWTh			Handball Cts
	3		11:00-11:50	MTuWTh			Handball Cts
	T4		2:00-2:50	MTuWTh			Handball Cts
	T5		3:00-3:50	MTuWTh			Handball Cts
		T1	8:00-8:50	M	W	F	Handball Cts
		T2	9:00-9:50	MTu	Th		Handball Cts
		T3	9:00-9:50		W	FS	Handball Cts
		T4	10:00-10:50	MTu	Th		Handball Cts
		T5	11:00-11:50	MTu	Th		Handball Cts
		T6	2:00-2:50	M	W	F	Handball Cts
		T7	2:00-3:30	Tu	Th		Handball Cts
		T8	3:00-3:50	M	W	F	Handball Cts
110a-1	Restricted Physical Education						
	1		3:00-3:50	M	W	F	Gym 114
110b-1	Restricted Physical Education						
	1		12:00-12:50	M	W	F	Gym 114
110c-1	Restricted Physical Education						
	1		1:00-1:50	M	W	F	Gym 114
111a-1	Beginning Swimming						
	1	1	1:00-1:50	M	W	F	Pool
	2	2	2:00-2:50	M	W	F	Pool
	3	3	3:00-3:50	M	W	F	Pool
	4	4	7:00-7:50 pm	MTu	Th		Pool
		5	8:00-8:50 pm	MTu	Th		Pool
111b-1	Intermediate Swimming						
	1	1	1:00-1:50	M	W	F	Pool
	2	2	2:00-2:50	M	W	F	Pool
	3		3:00-3:50	M	W	F	Pool
	T4	3	7:00-7:50 pm	MTu	Th		Pool
		T4	8:00-8:50 pm	MTu	Th		Pool
112-1	Basic Body Movements						
	1		8:00-9:30		W	S	Gym 207
		T1	9:00-9:50	M		FS	Gym 207
	2		10:00-10:50	M	W	F	Gym 207
		T2	10:00-10:50	M		S	Gym 207
			2:00-2:50			F	
	3		10:00-10:50	Tu	Th	S	Gym 208



## 76 GENERAL STUDIES AREA E (GSE)

Course No.—Hours		Descriptive Title	Days			Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>112-1 Basic Body Movements</b>							
	1	3	12:00-12:50	M	W	F	Gym 207
	2		12:00-12:50	TuWTh			Gym 207
		4	1:00-1:50	M	W	F	Gym 207
	3		3:00-3:50	M	W	F	Gym 207
	4		3:00-3:50	TuWTh			Gym 207
4			5:00-5:50	M	WTh		Gym 207
<b>113a-1<sup>2</sup> Square and Social Dance</b>							
		t2	9:00-10:15	Tu	Th		Gym 114
	1		10:00-11:15	Tu	Th		Gym 114
1			11:00-11:50	M	W	F	Gym 114
	t2		12:00-1:15	Tu	Th		Gym 114
t2			12:00-12:50	M	W	F	Gym 114
	t3	t3	1:00-2:15	Tu	Th		Gym 114
		t4	2:00-3:15	Tu	Th		Gym 114
	4		3:00-3:50	M	W	F	Gym 114
			3:00-4:15	Tu	Th		Gym 114
t3			4:00-4:50	M	W	F	Gym 114
t4	5		4:00-4:50	M	W	F	Gym 114
t5	t6	t5	4:00-5:30	Tu	Th		Gym 114
t6	t7		5:00-5:50	M	W	F	Gym 114
	t8		5:00-6:30 pm	Tu	Th		Gym 114
t7			6:00-6:50 pm	M	WTh		Gym 114
		t6	7:00-7:50 pm	M	WTh		Gym 114
	t9		7:00-8:30 pm	M	W		Gym 114
<b>113b-1 Folk Dance</b>							
	1		8:00-8:50	M	W	F	Gym 114
	2		9:00-9:50	M	W	F	Gym 114
<b>113c-1<sup>2</sup> Social Dance</b>							
1			11:00-12:15	Tu	Th		Gym 114
<b>113d-1 Beginning Contemporary Dance</b>							
1			8:00-8:50	M	Th		Gym 208
			4:00-4:50	Tu			Gym 207
	1	1	8:00-8:50	M	W	F	Gym 208
2			8:00-8:50	Tu		F	Gym 208
			4:00-4:50	Tu			Gym 207
3			8:00-8:50		W	S	Gym 208
			4:00-4:50		Th		Gym 207
	2	2	8:00-8:50	Tu	Th	S	Gym 208
4			9:00-9:50	M	Th		Gym 208
			4:00-4:50	Tu			Gym 207
5			9:00-9:50	Tu		F	Gym 208
			4:00-4:50		Th		Gym 207
6			9:00-9:50		W	S	Gym 208
			4:00-4:50		Th		Gym 207
7			10:00-10:50	M	W	F	Gym 208
	3		2:00-2:50	M	W	F	Gym 208
t8	4		4:00-4:50	M	W	F	Gym 208
		t3	4:00-4:50	M	W	F	Gym 208
<b>113e-1 Intermediate Contemporary Dance</b>							
	1	1	9:00-9:50	TuWTh			Gym 208
		2	10:00-10:50	TuWTh			Gym 208
	2		12:00-12:50	M	W	F	Gym 208
<b>114a-1 Individual and Team Activity—Archery</b>							
1			1:00-2:30	M	W		Gym 208
		t1	12:00-1:30	Tu	Th		Gym 208
		2	1:00-2:30	Tu	Th		Gym 208
<b>114b-1 Individual and Team Activity—Badminton</b>							
	1		8:00-8:50	M	Th		Gym 207
			2:00-2:50		W		
	2		8:00-8:50	Tu		F	Gym 207
			2:00-2:50		Th		
	3		8:00-8:50		W	S	Gym 207
			2:00-2:50		W		
	4		9:00-9:50	W	Th		Gym 207
			2:00-2:50		Th		Gym 207
	5		9:00-9:50	Tu		F	Gym 207
	6		2:00-2:50		Th		Gym 207
			9:00-9:50		W	S	Gym 207
	t7		9:30-10:15	M	W	F	Gym 207
	t8		9:30-10:15	Tu	Th	S	Gym 207
1			10:00-10:50	Tu	Th	S	Gym 207
		1	12:00-12:50	M	W	F	Gym 207
		2	12:00-12:50	TuWTh			Gym 207
2			1:00-1:50	M	W	F	Gym 207
3			1:00-1:50	TuWTh			Gym 207

113d or consent  
of instructor

Course No.—Hours		Descriptive Title		Days		Place		Prerequisite Instructor
Fall	Winter	Spring	Time					
4			2:00-2:50	M	W	F	Gym 207	
5			2:00-2:50	Tu	W	Th	Gym 207	
6			3:00-3:50	M	W	F	Gym 207	
7			3:00-3:50	Tu	W	Th	Gym 207	
114c-1	<b>Individual and Team Activity—Basketball</b>							
	1		9:00-9:50	M		FS	Gym 208	
	2		10:00-10:50	M		FS	Gym 208	
	3		10:00-10:50	Tu	W	Th	Gym 208	
	4		1:00-1:50	M	W	F	Gym 208	
	t5		5:00-6:15 pm	M	W		Gym 208	
114d-1	<b>Beginning Bowling (fee required)</b>							
1	1	1	8:00-8:50	M	W	F	Bowling Alley	
t2	t2	t2	8:00-8:50	Tu	Th	S	Bowling Alley	
3	3	3	9:00-9:50	M	W	F	Bowling Alley	
t4	t4	t4	9:00-9:50	Tu	Th	S	Bowling Alley	
5	5	5	10:00-10:50	Tu	W	F	Bowling Alley	
t6	t6	t6	10:00-10:50	M	Th	S	Bowling Alley	
7		7	11:00-11:50	M	W	F	Bowling Alley	
t8	t7	t8	11:00-11:50	Tu	Th	S	Bowling Alley	
9	8	9	12:00-12:50	M	W	F	Bowling Alley	
10	t9	10	12:00-1:10	Tu	Th		Bowling Alley	
11	10	11	1:00-1:50	M	W	F	Bowling Alley	
12	11	12	1:15-2:25	Tu	Th		Bowling Alley	
13	12	13	2:00-2:50	M	W	F	Bowling Alley	
14	13	14	2:30-3:40	Tu	Th		Bowling Alley	
15	14	15	3:00-3:50	M	W	F	Bowling Alley	
t16	t15	t16	3:45-5:55	Tu	Th		Bowling Alley	
t17	t16	t17	4:00-4:50	M	W	F	Bowling Alley	
114e-1	<b>Golf</b>							
	t1		10:00-11:30	Tu	Th		Gym 114	
	t2		11:00-12:30	Tu	Th		Gym 114	
	3		12:00-1:30	M	W		Gym 114	
	4		2:00-3:50	M	W		Gym 114	
	5		3:00-4:50	M	W		Gym 114	
	t6		4:00-5:30	M	W		Gym 114	
114h-1	<b>Tennis (first 7 sections of fall term meet 6 weeks, all others meet full term)</b>							
1			8:00-9:35	MTu	Th	F	Gym 206	
	1		8:00-9:30	M	Th		Gym 207	
	2		8:00-9:30	Tu		F	Gym 207	
	3		8:00-9:30		W	S	Gym 207	
2			9:00-10:35	MTu	Th	F	Gym 206	
	4		9:00-10:30	M	Th		Gym 207	
	5		9:00-10:30	Tu		F	Gym 207	
	t6		9:00-10:30		W	S	Gym 207	
3			10:00-11:35	MTu	Th	F	Gym 206	
4			11:00-12:35	MTu	Th	F	Gym 206	
	7		11:00-12:30	Tu		F	Gym 206	
	t8		11:00-12:30		W	S	Gym 206	
5			12:00-1:35	MTu	Th	F	Gym 206	
6			1:00-2:35	MTu	Th	F	Gym 206	
7			2:00-3:35	MTu	Th	F	Gym 206	
	9		2:00-3:30	Tu	Th		Gym 207	
t8			8:00-9:30		W	S	Gym 206	
t9			9:00-10:30		W	S	Gym 206	
t10			10:00-11:30		W	S	Gym 206	
t11			11:00-12:30		W	S	Gym 206	
114i-1	<b>Volleyball</b>							
	t1		10:00-10:50	M		FS	Gym 208	
1			11:00-11:50		Th		Gym 207	
			12:00-12:50	Tu	Th		Gym 207	
	1		10:00-10:50	M	W	F	Gym 207	
	2		12:00-1:20	Tu	Th		Gym 208	
	3		1:00-2:15	Tu	Th		Gym 208	
	t4		2:00-2:50	M	W	F	Gym 208	
	t5		2:00-3:15	Tu	Th		Gym 208	
	t2		4:00-4:50	M	W	F	Gym 208	
	t3		7:00-8:15 pm	M	Th		Gym 208	
114m-1	<b>Fencing</b>							
t1	1		8:00-8:50	M	W	F	Gym 114	
	1		8:00-9:30	Tu	Th		Gym 114	
	2		9:00-10:30	Tu	Th		Gym 114	
t2	2		9:00-9:50	M	W	F	Gym 114	
t3	3		10:00-10:50	M	W	F	Gym 114	
	4		11:00-11:50	M	W	F	Gym 114	
	3		1:00-1:50	M	W	F	Gym 114	

## 78 GENERAL STUDIES AREA E (GSE)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>114m-1 Fencing</b>							
4	4		1:00-2:30	Tu	Th	Gym 114	
5	5		2:00-2:50	M	W F	Gym 114	
6	6		2:00-3:30	Tu	Th	Gym 114	
	7		3:00-4:30	Tu	Th	Gym 114	
<b>114p-1 Gymnastics and Tumbling</b>							
1			11:00-11:50	M	W F	Gym 207	
	1		3:00-3:50	M	W F	Gym 207	
	1		5:00-5:50	MTuW		Gym 207	
<b>T114r-1 Track and Field</b>							
	1		3:00-4:30	Tu	Th	Gym 114	Davidson
<b>T114s-1 Intermediate Bowling</b>							
1			11:00-11:50	M	W F	Bowling Alley	Posgay
<b>T114t-1 Intermediate Tennis</b>							
	1		11:00-12:30	M	Th	Gym 207	Davidson
<b>201-3 Healthful Living—TV</b>							
1	1	1	9:00-9:50	M	W F	Tech A120	
2	2	2	9:00-9:50	M	W F	Tech A122	
3	3	3	9:00-9:50	MTuW		Tech A222	
4	4	4	9:00-9:50	MTuW		Tech A308	
5	5	5	9:00-9:50	M	W F	Tech A310	
	6	6	9:00-9:50	M	W	HEc 201	
			9:00-9:50	Tu		Ag 168	
6			9:00-9:50	M	W	HEc 201	
			9:00-9:50	Tu		Comm 114	
7	7	7	9:00-9:50	M	W F	HEc 206	
8	8	8	9:00-9:50	M	W F	Comm 120	
9	9	9	11:00-11:50	M	WTh	Tech A120	
10	10	10	11:00-11:50	M	WTh	Tech A122	
11	11	11	11:00-11:50	M	W F	Tech A222	
12	12	12	11:00-11:50	MTuW		Tech A308	
13	13	13	11:00-11:50	M	W F	Tech A310	
14		14	11:00-11:50	M	W	HEc 201	
			11:00-11:50	Tu		M 302	
	14		11:00-11:50	M	W	HEc 201	
			11:00-11:50	Tu		Ag 168	
15			11:00-11:50	M	W	HEc 206	
			11:00-11:50	Tu		Ag 166	
	15	15	11:00-11:50	M	W	HEc 206	
			11:00-11:50	Tu		Ag 166	
16	16	16	11:00-11:50	M	W F	Comm 120	
17	17	17	1:00-1:50	M	W	Tech A120	
			1:00-1:50	Tu		HEc 201	
18	18	18	1:00-1:50	M	W	Tech A122	
			1:00-1:50	Tu		Tech A208	
19	19	19	1:00-1:50	MTuW		Tech A222	
20	20	20	1:00-1:50	M	W F	Tech A308	
<b>201-3 Healthful Living</b>							
21	21	21	11:00-11:50	Tu	Th S	Arena 121	
22	22	22	11:00-11:50	M	W F	Arena 121	
23	23	23	2:00-2:50	M	W F	Arena 121	
24	24	24	8:00-8:50	Tu	Th S	Arena 123	
25	25	25	6:00-7:25 pm	M	W	Arena 123	
26	26	26	10:00-10:50	M	W F	Arena 121	
27	27	27	8:00-8:50	M	W F	Bailey 130	
28	28	28	10:00-10:50	Tu	Th S	Arena 121	
29	29	29	8:00-8:50	M	W F	Arena 119	
30	30	30	10:00-10:50	M	W F	Arena 119	
31	31		1:00-1:50	M	W F	Arena 119	
		31	1:00-1:50	M	W F	M 210	
32	32	32	8:00-8:50	M	W F	Arena 121	
t33	t33	t33	8:00-8:50	M	W F	Arena 123	
t34	t34	t34	8:00-8:50	Tu	Th S	Arena 121	
t35	t35	t35	12:00-12:50	M	W F	Arena 121	
t36	t36	t36	6:00-7:25 pm	Tu	Th	Arena 123	

<sup>1</sup> Majors in Women's Physical Education only<sup>2</sup> Cross-listed with Men's Physical Education

## ACCOUNTING (ACCT)

<b>250-4 Accounting Fundamentals</b>							
1			1:00-1:50	MTu	ThF	Cl 18	
	1		5:45-7:25 pm	M	W	Cl 18	
		1	1:00-1:50	TuWThF		Cl 12	
<b>251a-4 Accounting</b>							
1			11:00-11:50	Tu	F	L 141	Sophomore standing
			9:00-9:50	M	Th	Cl 12	



Course No.	Hours			Descriptive Title	Days		Place	Prerequisite Instructor
	Fall	Winter	Spring	Time				
2				11:00-11:50	Tu	F	L 141	
				9:00-9:50	W	S	Cl 18	
3				11:00-11:50	Tu	F	L 141	
				11:00-11:50	M	Th	Cl 12	
4				11:00-11:50	Tu	F	L 141	
				11:00-11:50	W	S	Cl 18	
5				4:00-4:50	Tu	F	L 141	
				1:00-1:50	M		Cl 12	
				1:00-1:50	W		Cl 18	
6				4:00-4:50	Tu	F	L 141	
				2:00-2:50	M		Cl 12	
				2:00-2:50	W		Cl 18	
7				4:00-4:50	Tu	F	L 141	
				3:00-3:50	M		Cl 12	
				3:00-3:50	W		Cl 18	
8				4:00-4:50	Tu	F	L 141	
				4:00-4:50	M		Cl 12	
				4:00-4:50	W		Cl 18	
9				5:45-7:25 pm	M	W	Cl 12	
10				11:00-11:50	Tu	F	L 141	
				12:00-12:50	M	Th	L 221	
11				11:00-11:50	Tu	F	L 141	
				1:00-1:50	M	W	L 231	
12				4:00-4:50	Tu	F	L 141	
				3:00-3:50	M	W	L 131	
13				4:00-4:50	Tu	F	L 141	
				4:00-4:50	M	W	L 221	
	1	1		11:00-11:50	Tu	F	L 141	
				1:00-1:50	M		Cl 12	
				1:00-1:50	W		Cl 18	
	2	2		11:00-11:50	Tu	F	L 141	
				12:00-12:50	M		Cl 18	
				12:00-12:50	W		Cl 12	
	3	3		11:00-11:50	Tu	F	L 141	
				11:00-11:50	M	Th	Cl 12	
	4	4		11:00-11:50	Tu	F	L 141	
				11:00-11:50	W	S	Cl 18	
251b-4	Accounting							251a
	1	1		8:00-8:50	TuWThF		Cl 12	
1	2			9:00-9:50	TuW	FS	Cl 12	
	3			11:00-11:50	TuW	FS	Cl 12	
2	4	2		12:00-12:50	MTu	ThF	Cl 18	
	5			1:00-1:50	TuWThF		Cl 12	
3	6	3		4:00-4:50	TuWThF		Cl 12	
	7			5:45-7:25 pm	M	W	Cl 12	
4				2:00-2:50	TuWThF		Cl 12	
	4			5:45-7:25 pm	M	W	Cl 12	
251c-4	Accounting							251b
1	1	1		8:00-8:50	MTu	ThF	Cl 18	
2	2	2		10:00-10:50	MTu	ThF	Cl 12	
3	3	3		12:00-12:50	TuWThF		Cl 12	
4	4	4		3:00-3:50	MTu	ThF	Cl 18	
5	5	5		5:45-7:25 pm	Tu	Th	Cl 12	
		6		9:00-9:50	TuWThF		Cl 18	
		7		2:00-2:50	TuWThF		Cl 12	
309-2	Individual Income Tax							
	1			2:00-2:50	M		Cl 12	
				2:00-2:50	W		Cl 18	
331-4	Tax Accounting							251c
1		1		11:00-11:50	TuW	FS	Cl 12	
	1			10:00-10:50	MTu	ThF	Cl 18	
341-4	Cost Accounting							251c
1				9:00-9:50	MTu	ThF	Cl 18	
2				10:00-10:50	MTu	ThF	Cl 18	
	1			9:00-9:50	M	WThS	Cl 18	
351a-4	Intermediate Accounting							251c
1	1			2:00-2:50	MTu	ThF	Cl 18	
2				4:00-4:50	MTu	ThF	Cl 18	
	1			10:00-10:50	MTu	ThF	Cl 18	
351b-4	Intermediate Accounting							351a
	1			1:00-1:50	MTu	ThF	Cl 18	
	2			2:00-2:50	TuWThF		Cl 12	
	1			9:00-9:50	MTu	ThF	Cl 12	
355-3	Governmental Accounting							251c
1				1:00-1:50	Tu	ThF	Cl 12	
410-4	Accounting Concepts							MBA student or consent of instructor
1				2:00-2:50	MTuWTh		Cl 25	

## 80 ACCOUNTING (ACCT)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
415-4	Electronic Data Processing in Business						251c
	1		3:00-3:50	TuWThF		Cl 12	
	2		5:45-7:25 pm	Tu	Th	Cl 12	
		1	4:00-4:50	MTu	ThF	Cl 18	
432-4	Problems in Federal Taxation						331
		1	1:00-1:50	MTu	ThF	Cl 18	
	1		4:00-4:50	MTu	ThF	Cl 18	
442-4	Advanced Cost Accounting						341
	1		11:00-11:50	MTu	ThF	Cl 18	
		1	9:00-9:50	M	Th	Cl 12	
			9:00-9:50	Tu	F	Cl 18	
		2	11:00-11:50	MTu	ThF	Cl 18	
		1	3:00-3:50	TuWThF		Cl 12	
453-4	Advanced Accounting						351b
	1		3:00-3:50	TuWThF		Cl 12	
		1	11:00-11:50	MTu	ThF	Cl 18	
456-4	Auditing						341, 351b
	1		8:00-8:50	MTu	ThF	Cl 12	
		1	2:00-2:50	MTu	ThF	Cl 18	
458-4	Accounting Systems						331, 341, 351b
	1		3:00-4:50	M		Cl 12	
			3:00-4:50		W	Cl 18	
459-4	Internship in Accounting						
	1		To be arranged			Cl 232	
461-4	Certified Public Accountant Problems						341, 351b
		1	8:00-8:50	M		Cl 12	
			8:00-9:50		W	Cl 12	

## AEROSPACE STUDIES (AS)

100-0	<b>Corps Training</b>						
	1	1	1	10:00-10:50	Tu	Field	
101-2	<b>National Conflict, Military Power, Aerospace Forces</b>						
	1			9:00-9:50	M W	Wh 113	
	2			11:00-11:50	M W	Wh 113	
	3			1:00-1:50	M W	Wh 113	
	4			3:00-3:50	M W	Wh 113	
	5			9:00-9:50	Tu Th	Wh 113	
	6			11:00-11:50	Tu Th	Wh 113	
	7			1:00-1:50	Tu Th	Wh 113	
	8			3:00-3:50	Tu Th	Wh 113	
	T9			5:45-7:25 pm	W	Wh 113	
200-0	<b>Corps Training</b>						100
	1	1	1	10:00-10:50	Tu	Field	
201-2 <sup>1</sup>	<b>American Military Power and Western Alliances</b>						101
	1			9:00-9:50	Tu Th	Wh 113	
	2			11:00-11:50	Tu Th	Wh 113	
	3			1:00-1:50	Tu Th	Wh 113	
	4			3:00-3:50	Tu Th	Wh 113	
202-2 <sup>1</sup>	<b>Communist Military Power, Trends and Implications of World Military Power</b>						201
		1		9:00-9:50	Tu Th	Wh 113	
		2		11:00-11:50	Tu Th	Wh 113	
		3		1:00-1:50	Tu Th	Wh 113	
		4		3:00-3:50	Tu Th	Wh 113	
300-0	<b>Corps Training</b>						General military course or 6 week FTU
	1	1	1	10:00-10:50	Tu	Field	
301-3 <sup>1</sup>	<b>Growth and Development of Aerospace Power</b>						General military course or 6 week FTU
	1			8:00-8:50	M WTh	Wh 107	
	2			10:00-10:50	M WTh	Wh 107	
	3			12:00-12:50	M WTh	Wh 107	
	4			2:00-2:50	M WTh	Wh 107	
302-3 <sup>1</sup>	<b>Growth and Development of Aerospace Power</b>						301
	1			8:00-8:50	M WTh	Wh 107	
	2			10:00-10:50	M WTh	Wh 107	
	3			12:00-12:50	M WTh	Wh 107	
	4			2:00-2:50	M WTh	Wh 107	
303-3 <sup>1</sup>	<b>Growth and Development of Aerospace Power</b>						302
	1			8:00-8:50	M WTh	Wh 107	
	2			10:00-10:50	M WTh	Wh 107	
	3			12:00-12:50	M WTh	Wh 107	
	4			2:00-2:50	M WTh	Wh 107	
340-0	<b>Corps Training</b>						300
	1	1	1	10:00-10:50	Tu	Field	
350-2 <sup>2</sup>	<b>Flight Regulations and Navigation</b>						
	1			12:00-12:50	M W	Wh 113	

Course No.—Hours	Descriptive Title	Days		Place	Prerequisite Instructor
		Fall	Winter		
351-3 <sup>1</sup>	Military Professionalism				303
1	9:00-9:50	M	WTh	Wh 107	
2	11:00-11:50	M	WTh	Wh 107	
3	1:00-1:50	M	WTh	Wh 107	
4	3:00-3:50	M	WTh	Wh 107	
352-3 <sup>1</sup>	Aerospace Leadership				351
1	9:00-9:50	M	WTh	Wh 107	
2	11:00-11:50	M	WTh	Wh 107	
3	1:00-1:50	M	WTh	Wh 107	
4	3:00-3:50	M	WTh	Wh 107	
353-3 <sup>1</sup>	Military Management				352
1	9:00-9:50	M	WTh	Wh 107	
2	11:00-11:50	M	WTh	Wh 107	
3	1:00-1:50	M	WTh	Wh 107	
4	3:00-3:50	M	WTh	Wh 107	

<sup>1</sup> Exceptions to this prerequisite may be granted with PAS approval<sup>2</sup> Prior PAS approval required for non-FIP cadet entry<sup>3</sup> Cross-listed with Plant Industries

## AGRICULTURAL INDUSTRIES (AGI)

114-4	Introduction to Agricultural Economics				
1	9:00-9:50	MTuW		Ag 166	Herr
	9:00-9:50		Th	Ag 225	
2	9:00-9:50	MTuW		Ag 166	Herr
	9:00-9:50		F	Ag 225	
3	9:00-9:50	MTuW		Ag 166	Herr
	9:00-9:50		S	Ag 225	
4	9:00-9:50	MTuW		Ag 166	Herr
	10:00-10:50		S	Ag 225	
1	3:00-3:50	MTuW		Ag 166	Herr
	3:00-3:50		F	Ag 225	
2	3:00-3:50	MTuW		Ag 166	Herr
	3:00-3:50		Th	Ag 225	
3	3:00-3:50	MTuW		Ag 166	Herr
	4:00-4:50		Th	Ag 225	
4	3:00-3:50	MTuW		Ag 166	Herr
	9:00-9:50		S	Ag 225	
210-2	Introduction to Agricultural Education				
1	4:00-4:50	M	W	Ag 214	Benton
214-2	Agricultural Drawing				
1	10:00-11:50	M	Th	Ag 195	
2	1:00-2:50	M	W	Ag 195	
215-4	Introduction to Farm Structures and Electrification				
1	4:00-4:50	Tu	Th	Ag 225	
	3:00-4:50	M	W	Ag 155	
2	4:00-4:50	Tu	Th	Ag 225	
	8:00-9:50	M	W	Ag 155	
306a-3 <sup>3</sup>	Soil and Water Conservation				PI I 103
1	11:00-11:50	M	W	F Ag 166	Jones
306b-2 <sup>3</sup>	Soil and Water Conservation				306a or concurrent registration
1	11:00-12:50	Tu	Th	Ag 195	
2	3:00-4:50	Tu	Th	Ag 195	
309-5	Agricultural Education				48 hrs of Agriculture and GSB 331
1	1	9:00-11:50	MTuWThF	Ag 155	Wood
310-4	General Agriculture				
1	3:00-3:50	MTu	Th	Ag 225	Wood
	3:00-4:50		W	Ag 225	
2	3:00-3:50	MTu	Th	Ag 225	Wood
	3:00-4:50		F	Ag 225	
311-3	Adult Education in Agriculture				Consent of department
1	11:00-11:50	M	W	F Ag 214	Benton
312a-2	Summer Practice in Vocational Agriculture				Consent of department
1	To be arranged				Wood
GSB 314-3	Economic Analysis of the Agricultural Policies of the United States (See General Studies Area B for schedule.)				
312b-10	Student Teaching in Vocational Agriculture				
1	1	To be arranged			Wood
350-5	Farm Management				GSB 211a
1	10:00-10:50	MTuW	F	Ag 225	Armstrong
	11:00-12:50		F	Ag 225	
2	10:00-10:50	MTuW	F	Ag 225	Armstrong
	11:00-12:50	Tu		Ag 225	
1	11:00-11:50	MTu	ThF	Ag 225	Armstrong
	1:00-2:50		F	Ag 225	



## 82 AGRICULTURAL INDUSTRIES (AG I)

Course No.—Hours		Descriptive Title		Days		Place		Prerequisite Instructor
Fall	Winter	Spring	Time					
350-5	Farm Management							GSB 211a
		2	11:00-11:50	MTu	ThF	Ag 225		Armstrong
			10:00-11:50		S	Ag 225		
351-4	Farm Financial Management							350
	1		2:00-2:50	MTuW		Ag 225		Herr
			1:00-2:50		Th	Ag 225		
352-3	Agricultural Prices							354
	1		4:00-4:50	TuW	F	Ag 225		Haag
354-3	Agricultural Marketing							GSB 211a
	1		2:00-2:50	M	WTh	Ag 225		Solverson
		1	1:00-1:50	M	WTh	Ag 225		Solverson
373-5	Farm Power and Machinery							GSD 108a
	1		11:00-11:50	MTu	Th	Ag 225		Paterson
			1:00-2:50		W F	T 29		
	2		11:00-11:50	MTu	Th	Ag 225		Paterson
			10:00-11:50		W F	T 29		
	3		11:00-11:50	MTu	Th	Ag 225		Paterson
			8:00-9:50		W F	T 29		
375-3	Farm Shop							GSD 108b
	1	1	8:00-9:50	M	W S	T 29		Paterson
	2	2	3:00-4:50	M	W F	T 29		Paterson
376-4	Advanced Farm Power							373
	1		11:00-11:50		W F	Ag 155		Paterson
			9:00-10:50	Tu	Th	T 29		
377-4	Farm Structure							
	1		4:00-4:50	M	Th	Ag 155		
			3:00-4:50	Tu	F	Ag 155		
381-1 <sup>2</sup>	Agricultural Seminar							Senior standing
	1		4:00-4:50	Tu		Ag 225		Jones
		1	4:00-4:50	Tu		Ag 214		Wills
		1	4:00-4:50	Tu		Ag 114		Reed
390-1 to 3	Special Studies in Agricultural Industries							Consent of department
	1	1	1	To be arranged				
411-3	Agricultural Extension							Senior standing
	1		12:00-12:50	M	WTh	Ag 225		Benton
417-4	Agricultural Development in Emerging Countries							GSB 211a
	1		8:00-8:50	MTuWTh		Ag 225		Keeper
450-4	Advanced Farm Management							350
	1		1:00-1:50	TuW	F	Ag 225		Armstrong
			12:00-1:50	M		Ag 225		
456a-3	Agricultural Marketing Problems and Practices (Cooperatives)							354
	1		6:00-9:00 pm		W	Ag 225		Wills
		1	10:00-10:50	MTuW		Ag 225		Wills
456b-2 <sup>3</sup>	Agricultural Marketing Problems and Practices (Livestock)							354
	1		1:00-1:50	M	Th	Ag 225		Wills
		1	12:00-12:50	M	Th	Ag 225		Wills
456c-2 <sup>1</sup>	Agricultural Marketing Problems and Practices (Field Crops)							354
		1	9:00-9:50	Tu	Th	Ag 225		Wills
456d-2 <sup>3</sup>	Agricultural Marketing Problems and Practices (Dairy and Poultry)							354
	1		12:00-12:50		W F	Ag 225		Solverson
456e-4 <sup>1</sup>	Agricultural Marketing Problems and Practices (Horticulture Crops)							354
	1		1:00-1:50		W F	Ag 225		Haag
471-4 <sup>4</sup>	Land Resource Economics							For 370, Econ 440, 340
	1		3:00-4:50	M	W	Ag 116		Beazley
478-4	Advanced Farm Machinery							350, 373 and 374, consent of instructor
	1		1:00-1:50	M	W	Ag 155		Paterson
			1:00-2:50	Tu	Th	Ag 155		
505-3	Agricultural Economics Research Methods							
	1		8:00-8:50	MTuW		Ag 155		Armstrong
520-1 to 6	Readings							
	1	1	1	To be arranged				
550-4	Production Management							
		1	2:00-2:50	MTuWTh		Ag 225		Herr
554-4	Advanced Agricultural Marketing							
	1		9:00-9:50	MTuWTh		Ag 225		Wills
552-2	Advanced Agricultural Prices							
		1	9:00-9:50		W F	Ag 225		Solverson
575-1 to 6	Research							
	1	1	1	To be arranged				
581-1 to 6	Seminar							
	1	1	1	8:00-8:50		F Ag 155		

Course No.—Hours		Descriptive Title			Prerequisite
Fall	Winter Spring		Time	Days	

# 599-2 to 9 Thesis .....

1 1 1 To be arranged

<sup>1</sup> Cross-listed with Plant Industries.

<sup>2</sup> Cross-listed with Animal Industries, Forestry, and Plant Industries.

<sup>3</sup> Cross-listed with Animal Industries.

<sup>4</sup> Cross-listed with Forestry.

## ANIMAL INDUSTRIES (ANI)

### 105-4 Animal Husbandry .....

1		8:00-8:50	MTu	F	Ag 102	Miller
		8:00-9:50		Th	Ag 120	
2		8:00-8:50	MTu	F	Ag 102	Miller
		10:00-11:50		Th	Ag 120	
3		8:00-8:50	MTu	F	Ag 102	Miller
		1:00-2:50		Th	Ag 120	
4		8:00-8:50	MTu	F	Ag 102	Miller
		3:00-4:50		Th	Ag 120	
1		11:00-11:50	M	WTh	Ag 168	Miller
		10:00-11:50		Tu	Ag 120	
2		11:00-11:50	M	WTh	Ag 168	Miller
		1:00-2:50		Tu	Ag 114	
1		3:00-3:50	TuW	F	Ag 214	Miller
		8:00-9:50		Th	Ag 120	
2		3:00-3:50	TuW	F	Ag 214	Miller
		1:00-2:50		Th	Ag 120	
r3		3:00-3:50	TuW	F	Ag 214	Miller
		3:00-4:50		Th	Ag 120	

### 125-4 Elementary Poultry Production .....

1		8:00-8:50	TuWTh		Ag 214	Goodman
		8:00-9:50		F	Ag 132	
r2		8:00-8:50	TuWTh		Ag 214	Goodman
		10:00-11:50		F	Ag 132	
1		11:00-11:50	MTu	Th	Ag 132	Goodman
		10:00-11:50		W	Ag 132	

### 231-4 Dairy Husbandry .....

1		11:00-11:50	MTu	Th	Ag 214	Olson
		10:00-11:50		W	Ag 114	
2		11:00-11:50	MTu	Th	Ag 214	Olson
		1:00-2:50		W	Ag 114	
r3		11:00-11:50	MTu	Th	Ag 214	Olson
		8:00-9:50		W	Ag 114	
1		2:00-2:50	M	WTh	Ag 116	Olson
		1:00-2:50		F	Ag 114	

### 311a-2 or 3 Evaluation and Selection of Farm Animals and Animal Products ..... 105 or 125

1		3:00-4:50	M	W	Ag 114	Miller
		4:00-4:50		Th	Ag 114	Miller

### 311b-2 Evaluation and Selection of Farm Animals and Animal Products ..... 105 or 125

1		8:00-11:50		S	Ag 120	Miller
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### 311c-2 Evaluation and Selection of Farm Animals and Animal Products ..... Goodman

1		8:00-11:50		S	Ag 120	Miller
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### 315-4 Feeds and Feeding ..... 105 or 125 or 231

1		9:00-9:50	M	W	F	Ag 214	Reed
		9:00-10:50		Tu		Ag 114	
2		9:00-9:50	M	W	F	Ag 214	Reed
		1:00-2:50		Tu		Ag 120	
3		9:00-9:50	M	W	F	Ag 214	Reed
		9:00-10:50		Th		Ag 114	
1		9:00-9:50		Tu	ThF	Ag 214	Reed
		9:00-10:50	M			Ag 120	
2		9:00-9:50		Tu	ThF	Ag 214	Reed
		1:00-2:50	M			Ag 114	
3		9:00-9:50		Tu	ThF	Ag 214	Reed
		9:00-10:50		W		Ag 120	

### 316-4<sup>1</sup> Insect Pests and Their Control ..... GSA 201c

1		2:00-2:50	M	W		LS 205	Downey
		1:00-2:50		Tu	Tu	LS 213	
2		2:00-2:50	M	W		LS 205	Downey
		3:00-4:50		Tu	Th	LS 213	

### 319-3 Horses ..... Consent of instructor

1		1:00-1:50	M	W		Ag 116	Kammlade
		1:00-2:50		Tu		Ag 114	

## 84 ANIMAL INDUSTRIES (AN I)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
321-4			<b>Processing and Grading Poultry Products</b>				125
	1		9:00-9:50	M	WTh	Ag 132	Hinners
			9:00-10:50	Tu		Ag 132	
327-4			<b>Hatchery and Breeding Farm Management</b>				125
	1		1:00-1:50	TuW	F	Ag 132	Goodman
			1:00-2:50	M		Ag 132	
332-4			<b>Animal Breeding and Genetics</b>				GSA 201c, 105 or 125 or 231
	1		8:00-8:50	MTu	ThF	Ag 116	Goodman
337-4			<b>Animal Hygiene</b>				GSA 201c, 105 or 125 or 231
	1		8:00-8:50	MTuWTh		Ag 116	
381-1 <sup>2</sup>			<b>Agriculture Seminar</b>				Junior and senior only
	1		4:00-4:50	Tu		Ag 225	Rawson
		1	4:00-4:50	Tu		Ag 214	Wills
		1	4:00-4:50	Tu		Ag 114	Reed
390-1 to 3			<b>Special Studies in Animal Industries</b>				Junior and senior only
	1	1	To be arranged				
415a-4			<b>Animal Nutrition</b>				315
	1		3:00-3:50	MTu	Th	Ag 214	Hinners
			2:00-3:50		W	Ag 120	
	2		3:00-3:50	MTu	Th	Ag 214	Hinners
			2:00-3:50		F	Ag 120	
415b-4			<b>Animal Nutrition</b>				415a
	1		11:00-11:50	MTuW		Ag 116	Burnside
			10:00-11:50		Th	Ag 120	
420-4			<b>Commercial Poultry Production</b>				125
	1		3:00-3:50	MTu	Th	Ag 132	Hinners
			3:00-4:50		W	Ag 132	
430-4			<b>Dairy Production</b>				
	1		2:00-2:50	TuW	F	Ag 116	Olson
			2:00-3:50		Th	Ag 114	
431-4			<b>Reproduction and Artificial Insemination of Farm Animals</b>				GSA 201c and 105 or 231
	1		11:00-11:50	MTu	F	Ag 116	Olson
			10:00-11:50		W	Ag 114	
	2		11:00-11:50	MTu	F	Ag 116	Olson
			10:00-11:50		Th	Ag 114	
432-3			<b>Quantitative Inheritance of Farm Animals</b>				332
	1		12:00-12:50	MTu	Th	Ag 116	Goodman
433-3			<b>Feeding Dairy Cattle</b>				231 and 315
	1		10:00-10:50	MTuW		Ag 155	Reed
456b-2 <sup>3</sup>			<b>Agriculture Marketing Problems and Practices (Livestock)</b>				GSB 211a and 354
	1		1:00-1:50	M	Th	Ag 225	Wills
		1	12:00-12:50	M	Th	Ag 225	Wills
456d-2 <sup>3</sup>			<b>Agriculture Marketing Problems and Practices (Dairy and Poultry)</b>				
	1		12:00-12:50		W F	Ag 225	Solverson
465-5			<b>Swine Production</b>				105 and 315
	1		8:00-8:50	M	WThF	Ag 116	Burnside
			8:00-9:50	Tu		Ag 120	
480-4			<b>Sheep Production</b>				105 and 315
	1		1:00-1:50	MTuW		Ag 116	Kammlade
			1:00-2:50		Th	Ag 114	
485-4			<b>Beef Production</b>				105 and 315
	1		2:00-2:50	MTu	F	Ag 116	Kammlade
			1:00-2:50		Th	Ag 114	
		1	9:00-9:50	MTuW		Ag 116	Kammlade
			9:00-10:50		F	Ag 114	
487-4			<b>Commercial Livestock Feeding</b>				
	1		9:00-9:50		WThF	Ag 116	Kammlade
			9:00-10:50	M		Ag 114	
505a-4			<b>Research Methods in Agricultural Science</b>				
	1		9:00-10:50	M	W	Ag 120	Burnside
			10:00-10:50	Tu		Ag 120	
505b-4			<b>Research Methods in Agricultural Science</b>				
	1		1:00-2:50	MTu		Ag 120	Burnside
			1:00-1:50		W	Ag 120	
520-1 to 6			<b>Readings in Animal Industries</b>				
	1	1	To be arranged				
525-4			<b>Advanced Poultry Production</b>				
	1		7:35-9:15 pm	M	W	Ag 132	Hinners
575-1 to 6			<b>Individual Research</b>				
	1	1	To be arranged				
579-4 <sup>4</sup>			<b>Animal Behavior</b>				Consent of instructor
	1		12:00-12:50	Tu	Th	LS 204	Waring
			9:00-12:50	M		LS 204	



Course No.—Hours	Descriptive Title	Prerequisite
Fall Winter Spring	Time	Instructor
Days	Place	
581-1 Seminar		
1 1	4:00-4:50 Tu	Ag 114
1 1	4:00-4:50 Tu	
599-1 to 9 Thesis		
1 1 1	To be arranged	Ag 116
<sup>1</sup> Cross-listed with Zoology 316.		
<sup>2</sup> Cross-listed with Agricultural Industries, Forestry and Plant Industries.		
<sup>3</sup> Cross-listed with Agricultural Industries.		
<sup>1</sup> Cross-listed with Zoology 579.		
<sup>2</sup> Cross-listed with Philosophy.		

## ANTHROPOLOGY (ANTH)

300-3 Physical Anthropology						
1	1:00-1:50	M W F	HEc 102			
303-3 Old World Prehistory						
1	1:00-1:50	M W F	HEc 102			
304-3 The Origins of Civilization						
1	1:00-1:50	M W F	HEc 102			Riley
305a-3 Peoples and Cultures of the World I: North America						
1	9:00-9:50	M W F	HEc 306			Altschuler
305b-3 Peoples and Cultures of the World I: Asia						
1	9:00-9:50	M W F	HEc 102			Guemple
305c-3 Peoples and Cultures of the World I: Oceania						
1	9:00-9:50	M W F	HEc 306			Wagner
400-4 Man and Culture						
1	2:00-3:50	M W	HEc 306			Taylor
1	9:00-10:50	Tu Th	HEc 102			Lange
401-4 Language in Culture						
1	3:00-4:50	M W	HEc 106			
402-4 Human Bio-Interaction of Bio and Cult Behavior						
1	1:00-2:50	Tu Th	HEc 102			
404-4 Primitive Art and Technology						
1	11:00-12:50	Tu Th	HEc 102			Dark
405-4 Social Anthropology						
1	1:00-2:50	Tu Th	HEc 102			Handler
408a-4 History of Anthropological Thought						
1	9:00-10:50	Tu Th	HEc 102			Riley
408b-4 History of Anthropological Thought						
1	9:00-10:50	Tu Th	HEc 102			Riley
409-4 Anthropology and Modern Life						
1	1:00-2:50	Tu Th	HEc 102			Lange
413-4 Introduction to General Linguistics						
1	10:00-11:50	M W	HEc 102			Maring
415-3 <sup>2</sup> Logic of the Social Sciences						
1	11:00-11:50	M W F	Cl 326			McClure
	11:00-11:50	M W F	HEc 106			McClure
418-4 Languages of the World						
1	10:00-11:50	M W	HEc 102			Maring
483-3 to 18 Individual Study in Anthropology						
1 1 1	To be arranged					
501a-3 Pro-seminar in Physical Anthropology						
1	2:00-4:30	F	HEc 2a			
503a-3 Pro-seminar in Archaeology						
1	2:00-4:30	M	HEc 102			Muller
503b-3 Pro-seminar in Archaeology						
1	2:00-4:30	M	HEc 102			
505a-3 Pro-seminar in Linguistics						
1	7:30-10:00 pm	M	HEc 102			Maring
507a-3 Pro-seminar in Social Anthropology						
1	2:00-4:30	W	HEc 102			Wagner
507b-3 Pro-seminar in Social Anthropology						
1	2:00-4:30	W	HEc 102			Handler
509a-3 Pro-seminar in Ethnology						
1	7:30-10:00 pm	Tu	HEc 102			Riley
509b-3 Pro-seminar in Ethnology						
1	7:30-10:00 pm	Tu	HEc 102			Altschuler
510-3 Seminar in New World Archaeology						
1	7:30-10:00 pm	Th	HEc 102			Kelley
	3:00-5:30	Th	HEc 102			Kelley
511-3 Seminar in Meso-American Archaeology						
1	3:00-5:30	Th	HEc 102			Rands
511b-3 Seminar in Meso-American Archaeology						
1	10:00-12:30	M	HEc 102			Rands
512a-3 Seminar in Old World Archaeology						
1	7:30-10:00 pm	Th	HEc 306			Taylor
560a-3 Seminar in Comparative Social Organization						
1	7:30-10:00 pm	W	HEc 102			MacLachlan

## 86 ANTHROPOLOGY (ANTH)

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time		Instructor
560b-3	Seminar in Comparative Social Organization				
	1	3:00-5:30	Th	HEc 102	Handler
560c-3	Seminar in Comparative Social Organization				
	1	7:30-10:00 pm	W	HEc 102	Guemple
567a-3	Seminar in Anthropological Theory and Method				
	1	2:00-4:30	Tu	HEc 102	Muller
567b-3	Seminar in Anthropological Theory and Method				
	1	2:00-4:30	Tu	HEc 102	Muller
570a-3	Seminar in Art and Technology				
	1	11:00-12:50	Tu Th	HEc 102	Dark
570b-3	Seminar in Art and Technology				
	1	11:00-12:50	Tu Th	HEc 102	Dark
575a-3	Seminar in the Individual and Culture				
	1	10:00-12:30	F	HEc 102	Altschuler
581-3	Seminar in Anthropology				
	1	3:00-5:30	Tu	HEc 102	Lange
582-3 to 27	Problems in Archaeology				
	1	1	To be arranged		
584-3 to 27	Problems in Cultural Anthropology				
	1	1	To be arranged		
585-3 to 27	Readings in Anthropology				
	1	1	To be arranged		
595a-3	Field Methods in Ethnology				
	1	2:00-4:30	F	HEc 102	Guemple
595b-3	Field Methods in Ethnology				
	1	2:00-4:30	F	HEc 102	Maring
596a-3	Field Methods in Archaeology				
	1	2:00-4:30	W	HEc 102	
597-3 to 27	Field Work in Anthropology				
	1	1	To be arranged		
599-3 to 9	Thesis				
	1	1	To be arranged		
600-1 to 18	Dissertation				
	1	1	To be arranged		

## APPLIED SCIENCE (APS)

300-5 <sup>1</sup>	1	University Physics IV	3:00-3:50	TuW	F	P 309	Phys 211c
			3:00-4:50		Th	P 301	
			3:00-4:50	M		P 302	
	2	2	3:00-3:50	TuW	F	P 309	
			3:00-4:50		Th	P 301	
			3:00-4:50		W	P 302	
307-5	1	Analytical Problems in Technology	1:00-1:50	M	W	F	Math 111b
401a-4 <sup>2</sup>	1	X-Ray Crystallography	4:00-4:50	M	W		Tech B109
			3:00-4:50			F	Tech B109
401b-4 <sup>2</sup>	1	X-Ray Crystallography	4:00-4:50	M	W		Tech B109
			3:00-4:50			F	Tech B109
401c-4 <sup>2</sup>	1	X-Ray Crystallography	4:00-4:50	M	W		Tech B109
			3:00-4:50			F	Tech B109
418-3	1	Digital Computers in Research	1:00-1:50	Tu	F		Engr 222 or Math 225
			4:00-4:50		W		Tech D110a
419-3	1	Computer Applications	12:00-12:50	Tu	Th		Math 410a or Guid 520a
			12:00-12:50		F		Wham B24
	2	2	2:00-2:50	Tu	Th		Wham B24
			2:00-2:50		F		Wham B24
421-3	1	Programming Languages	3:00-3:50	M	W	F	Engr 222 or Math 225
422-3	1	Programming Systems	1:00-1:50	M	WTh		Engr 222 or Math 225
430-2 to 8	1	Special Problems in Industry and Technology	To be arranged				Consent of coordinator
431a-3	1	Nuclear Science	To be arranged				Math 252b, 300
431b-3	1	Nuclear Science	To be arranged				Math 252b, 300
450-4 <sup>1</sup>	1	Fundamentals of Reactive Systems	9:00-9:50	M	W	F	Chem 111c and Math 252b
			1:00-2:50	Tu			Tech D12

Course No.—Hours		Descriptive Title		Days			Place		Prerequisite
Fall	Winter	Spring	Time						Instructor
T470a-3 <sup>1</sup>	1	1	Engineering Analysis	12:00-12:50	M	W	F	Tech A208	Math 252b
T470b-3 <sup>1</sup>	1	1	Engineering Analysis	3:00-3:50	M	W	F	Tech A208	470a or Math 305a
	1	1		3:00-3:50	M	W	F	Tech A210	
501a-4	1	1	Materials Science	8:00-8:50	MTuW		F	Tech B109	
501b-4	1	1	Materials Science	8:00-8:50	MTuW		F	Tech B109	
501c-4	1	1	Materials Science	8:00-8:50	MTuW		F	Tech B109	
503a-4	1	1	Physical Properties of Crystalline Materials	1:00-1:50	MTuW		F	Tech B109	
503b-4	1	1	Physical Properties of Crystalline Materials	1:00-1:50	MTuW		F	Tech B109	
503c-4	1	1	Physical Properties of Crystalline Materials	1:00-1:50	MTuW		F	Tech B109	
504a-4	1	1	X-Ray Diffraction and the Solid State	11:00-11:50	M	W		Tech B109	
				10:00-11:50			Th	Tech B109	
504b-4	1	1	X-Ray Diffraction and the Solid State	11:00-11:50	M	W		Tech B109	
				10:00-11:50			Th	Tech B109	
504c-4	1	1	X-Ray Diffraction and the Solid State	11:00-11:50	M	W		Tech B109	
				10:00-11:50			Th	Tech B109	
521a-3	1	1	Design of Automatic Programming Language Processors	To be arranged				Tech D116	421
521b-3	1	1	Design of Automatic Programming Language Processors	To be arranged				Tech D116	421
522a-3	1	1	Programming Systems Design	To be arranged				Tech D116	422
522b-3	1	1	Programming Systems Design	To be arranged				Tech D116	422
T523-3	1	1	Digital Simulation Techniques	To be arranged				Tech D116	418 or consent of instructor
570-2 to 6	1	1	Special Investigations	To be arranged					Consent of coordinator
580-1 to 3	1	1	Seminar	To be arranged					Consent of coordinator
599-1 to 9	1	1	Thesis	To be arranged					Consent of coordinator

<sup>1</sup> Cross-listed with Physics.<sup>2</sup> Cross-listed with Chemistry.<sup>3</sup> Cross-listed with Engineering.

## A R T (ART)

100-5	1	1	Basic Studio	8:00-9:50	MTuW		F	A 112, 106	Tatro
				8:00-9:50			Th	A 202	
2	2	2		11:00-12:50	MTuW		F	A 112, 106	Harris
				11:00-12:50			Th	A 202	
3	3	3		1:00-2:50	MTuW		F	A 112	Gluhman
				1:00-2:50			Th	A 202	Gluhman
4	4	4		3:00-4:50	MTuW		F	A 112	Gluhman
				3:00-4:50			Th	A 202	Gluhman
5	5	5		6:00-7:50 pm	MTuW		F	A 112	Tatro
				1:00-2:50			Th	A 202	Tatro
6	6	6		1:00-2:50	MTuW		F	A 106	Boysen
				1:00-2:50			Th	A 202	Boysen
7	7	7		3:00-4:50	MTuW		F	A 106	Boysen
				1:00-2:50			Th	A 202	Boysen
8	8	8		11:00-12:50	MTuWThF			A 202	Lyman
200-4	1	1	Studio Disciplines	8:00-9:50	MTuW		F	A 6	Art 100
	2	2		1:00-2:50	MTuW		F	A 202	Sullivan
	3	3		3:00-4:50	MTuW		F	A 202	Bernstein
	4	4		8:00-9:50	MTuW		F	A 202	Breland
225a-3	1	1	Introduction to Art History	11:00-11:50	M	W	F	Wham 308	Lyman
	2	2		1:00-1:50	M	W	F	Comm 122	Lyman
225b-3	1	1	Introduction to Art History	11:00-11:50	M	W	F	M 209	Lyman
	2	2		1:00-1:50	M	W	F	Comm 122	Lyman
225c-3	1	1	Introduction to Art History	11:00-11:50	M	W	F	Comm 114	Lyman
	2	2		1:00-1:50	M	W	F	Comm 122	Lyman



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>300-4 Art Education for Elementary Teachers</b> .....							
1	1	1	9:00-9:50	Tu	Th	Wham 308	
			10:00-11:50	Tu	Th	PullI 105	Ferris
2	2	2	9:00-9:50	Tu	Th	Wham 308	
			1:00-2:50	Tu	Th	PullI 105	Ferris
3 <sup>1</sup>		3 <sup>1</sup>	9:00-9:50	Tu	Th	Wham 308	
			3:00-4:50	M	W	PullI 105	Ferris
	t3 <sup>2</sup>		To be arranged				
4	4	4	9:00-9:50	Tu	Th	Wham 308	
			6:00-7:50 pm	M	W	PullI 105	Barquist & Ferris
<sup>1</sup> Art 300, Section 3, (Fall, Spring) reserved for Department of Recreation and Outdoor Education Block Program.							
<sup>2</sup> Art 300, Section 3, (Winter) reserved for Department of Elementary Education Block Program.							
<b>300-4 Art Education for Elementary Teachers</b> .....							<b>300a</b>
1			3:00-5:50	Tu	Th	PullI 105	Lawson
<b>300-4 Art Education for Elementary Teachers</b> .....							<b>300b</b>
	1		3:00-5:50	Th	F	PullI 105	Lawson
<b>302-4 to 12 Pottery</b> .....							
1	1	1	1:00-3:50	Tu	Th	A 5	Vergette
2	2	2	9:00-11:50	Tu	Th	A 5	Vergette
<b>306-3 Materials and Techniques in Art Education</b> .....							
1	1	1	10:00-11:50	M	W	PullI 105	Barquist
t2	t2	t2	8:00-9:50	Tu	Th	PullI 105	Barquist
<b>307-3 Theory and Philosophy in Art Education</b> .....							
1		1	9:00-9:50	M	W	F	PullI 105 Abrahamson
<b>308-3 Curriculum and Administration in Art Education</b> .....							
1		1	2:00-2:50	M	W	F	PullI 105 Abrahamson
<b>325-2 to 15 Studio</b> .....							
1	1	1	10:00-11:50	M	W	F	A 210 Bernstein
<b>322-4 to 12 Jewelry and Silversmithing</b> .....							
1	1	1	8:00-9:50	M	W	F	A 11 Kington
2	2	2	11:00-12:50	M	W	F	A 11 Kington
<b>341-2 to 4 Drawing</b> .....							
1	1	1	7:00-9:00 pm	M	W	A 202	Fink
			10:00-11:50	M		A 202	Fink
<b>358-4 Prints</b> .....							
1	1	1	6:00-9:00 pm	M	W	A 16	Fink
			11:00-11:50	M		A 202	Fink
<b>365-4 Art Education in the Secondary Schools</b> .....							
	1		3:00-5:50	M	W	PullI 105	Barquist Ferris
		1	6:00-7:50 pm		Th	PullI 105	Barquist Ferris
			10:00-12:50		F	PullI 105	Barquist Ferris
<b>385-5 Weaving</b> .....							
1	1	1	1:00-3:50	Tu	Th	801 South	Washington Ginsberg
2	2	2	6:00-9:00 pm	Tu	Th	801 South	Washington Ginsberg
<b>393-4 to 12 Sculpture</b> .....							
1	1	1	1:00-3:50	Tu	Th	A 6	Sullivan
<b>401-2 to 12 Research in Painting</b> .....							
1		1	8:00-11:50	M	W	F	To be arranged Breland, Harris, Bernstein
<b>405-2 to 12 Studio in Sculpture</b> .....							
1		1	1:00-3:50	Tu	Th	A 6	Sullivan
<b>406-2 to 12 Studio in Painting</b> .....							
	1		8:00-11:50	M	W	F	To be arranged Harris, Breland, Bernstein
<b>408-4 Art Education for Elementary Teachers</b> .....							
1		1	3:00-5:50	Tu		PullI 105	Ferris
			6:00-7:50 pm	Tu		PullI 105	
<b>410-2 to 12 Research in Prints</b> .....							
1		1	6:00-9:00 pm	M	W	A 16	Fink
			10:00-11:50			F	A 211
<b>416-2 to 12 Studio in Prints</b> .....							
	1		6:00-9:00 pm	M	W	A 16	Fink
			10:00-11:50			F	A 211
<b>420-2 to 12 Research in Pottery</b> .....							
1		1	9:00-11:50	Tu	Th	A 5	Vergette
<b>426-2 to 12 Studio in Pottery</b> .....							
	1		9:00-11:50	Tu	Th	A 5	Vergette

Course No.—Hours		Descriptive Title	Time	Days	Place	Prerequisite	Instructor
Fall	Winter	Spring					
430-2 to 12		Research in Metal Construction					332
1	1	1:00-3:50	M W F	A 11		Kington	
436-2 to 12		Studio in Metal Construction					332
1	1	1:00-3:50	M W F	A 11		Kington	
440-2 to 12		Research in Weaving					
1	1	1:00-3:50	Tu Th	801 South	Washington	Ginsberg	
446-2 to 12		Studio in Weaving					
1	1	6:00-9:00 pm	Tu Th	801 South	Washington	Ginsberg	
447a-3		The Art of Ancient Egypt and the Near East					
1	1	9:00-9:50	M W F	M 203a		Lyman	
447b-3		The Art of Ancient Greece					
1	1	9:00-9:50	M W F	M 203a		Lyman	
447c-3		The Art of the Ancient Romans					
1	1	9:00-9:50	M W F	M 203a		Lyman	
448a-3		Early Christian and Byzantine Art					
1	1	10:00-11:50	Tu	M 203a		Lyman	
		10:00-10:50	Th	M 203a		Lyman	
448b-3		Early Medieval and Romanesque Art					
1	1	10:00-11:50	Tu	M 203a		Lyman	
		10:00-10:50	Th	M 203a		Lyman	
448c-3		Gothic Art					
1	1	10:00-11:50	Tu	M 203a		Lyman	
		10:00-10:50	Th	M 203a		Lyman	
449a-3		The Art of the Renaissance in Europe					
1	1	9:00-9:50	Tu Th S	M 203a		Gluhman	
449b-3		Baroque Art in Europe					
1	1	9:00-9:50	Tu Th S	M 203a		Gluhman	
449c-3		The Art of 18th Century Europe					
1	1	9:00-9:50	Tu Th S	M 203a		Gluhman	
460-2 to 12		Research in Art Education					
1	1	1:00-1:50	M W F	PullII 105	Abrahamson		
466-2 to 12		Studio in Art Education					
1	1	12:00-12:50	M W F	PullII 105	Abrahamson		
482d-3		Seminar in Modern Art History					12 hrs
1	1	2:00-3:50	Tu	M 203a		Gluhman	
		2:00-2:50	Th	M 203a		Gluhman	
482e-3		Seminar in Oriental Art					12 hrs
1	1	2:00-3:50	Tu	M 203a		Lyman	
		2:00-2:50	Th	M 203a		Lyman	
482c-3		Seminar in Renaissance Art					12 hrs
1	1	2:00-3:50	Tu	M 203a		Magnus	
		2:00-2:50	Th	M 203a		Magnus	
483-3 to 12		Research in Art History					
1	1	1	To be arranged				
493-2 to 12		Advanced Sculpture					Consent
1	1	To be arranged				Sullivan	
501-2 to 12		Seminar in Painting					401, 406 consent
1	1	10:00-11:50	Tu	To be arranged		Breland	
502-2 to 12		Seminar in Sculpture					443, 405 consent
		To be arranged		A 6		Sullivan	
504-2 to 12		Research in Sculpture					443, 405 consent
1	1	To be arranged		A 6		Sullivan	
506-2 to 12		Research in Painting					401, 406 or consent
1	1	8:00-11:50	M W F	To be arranged		Breland, Harris, Bernstein	
511-2 to 12		Seminar in Printmaking					410, 416 or consent
1	1	6:00-9:00 pm	WTh	A 16		Fink	
		10:00-11:50	F	To be arranged			
516-2 to 12		Research in Prints					410, 416 or consent
1	1	10:00-11:50	F	A 16		Fink	
520-2 to 12		Seminar in Pottery					420 or 426
1	1	1:00-3:50	M W	A 5		Vergette	
526-2 to 12		Research in Pottery					420 or 426
1	1	1:00-3:50	M W	A 5		Vergette	
530-2 to 12		Seminar in Metal Construction					430 or 436
1	1	1:00-3:50	M W F	A 11		Kington	
536-2 to 12		Research in Metal Construction					430 or 436
1	1	1:00-3:50	M W F	A 11		Kington	
540-2 to 12		Seminar in Weaving					440 or 446
1	1	1:00-3:50	Tu Th	801 South	Washington	Ginsberg	
546-2 to 12		Research in Weaving					440 or 446
1	1	1:00-3:50	Tu Th	801 South	Washington	Ginsberg	

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
560-2 to 12			<b>Seminar in Art Education</b>				
	1		To be arranged			PullI 105	Abrahamson
566-2 to 12			<b>Research in Art Education</b>				
	1	1	To be arranged			PullI 105	Abrahamson
571-2 to 12			<b>Readings in Art History</b>				
	1	1	To be arranged				
573-2 to 12			<b>Problems in Art History</b>				
	1	1	To be arranged				
599-5 to 9			<b>Thesis</b>				
	1	1	To be arranged				

**BOTANY (BOT)**

300-3			<b>Morphology of Non-Vascular Plants</b>				<b>GSA 201b</b>
	1	1	9:00-9:50	M	F	LS 323	
			8:00-9:50	Tu		LS 307	
	2	2	9:00-9:50	M	F	LS 323	
			8:00-9:50		W	LS 307	
	3	3	9:00-9:50	M	F	LS 323	
			8:00-9:50		Th	LS 307	
301-3			<b>Morphology of Vascular Plants</b>				<b>GSA 201b</b>
	1	1	1:00-1:50	M	Th	LS 323	
			1:00-2:50	Tu		LS 307	
	2	2	1:00-1:50	M	Th	LS 323	
			1:00-2:50		W	LS 307	
	3	3	1:00-1:50	M	Th	LS 323	
			1:00-2:50		F	LS 307	
308-5			<b>Taxonomy of Cultivated Plants</b>				<b>GSA 201b</b>
		1	10:00-11:50	M	W	F	LS 307
							Marberry
315-4 <sup>1</sup>			<b>Plant Genetics</b>				<b>GSA 201b</b>
	1		3:00-3:50	M	F	LS 323	Olah
			4:00-4:50		W	LS 323	Olah
			3:00-4:50	Tu		LS 315	Olah
	2		3:00-3:50	M	F	LS 323	Olah
			4:00-4:50		W	LS 323	Olah
			4:00-5:50		Th	LS 315	
	3		3:00-3:50	M	F	LS 323	Olah
			4:00-4:50		W	LS 323	Olah
			4:00-5:50	M		LS 315	Olah
320-5 <sup>1</sup>			<b>Elements of Plant Physiology</b>				<b>GSA 201b</b>
	1	1	8:00-8:50	M	W	F	LS 323
			8:00-9:50	Tu	Th	LS 311	Schmid
	2	2	8:00-8:50	M	W	F	LS 323
			10:00-11:50	Tu	Th	LS 311	Schmid
341-3			<b>Autecology</b>				<b>GSA 201b</b>
	1		2:00-2:50	M	W	LS 323	Ashby
			1:00-2:50		Th	LS 307	Ashby
			To be arranged			S	Ashby
		1	10:00-10:50	Tu	F	LS 323	Ashby
			10:00-11:50		Th	LS 307	Ashby
			To be arranged			S	Ashby
400-5			<b>Plant Anatomy</b>				<b>Bot 301</b>
	1		10:00-10:50	M	W	LS 323	Matten
			10:00-11:50	Tu	ThF	LS 315	Matten
404-5			<b>Algae</b>				<b>Bot 300</b>
		1	9:00-9:50	M	W	F	LS 315
			8:00-9:50	Tu	Th	LS 315	Tindall
405-5			<b>Mycology</b>				<b>Bot 300</b>
	1		11:00-11:50	M	W	F	LS 323
			10:00-11:50	Tu	Th	LS 307	Gray
406-5			<b>Industrial Mycology</b>				<b>Bot 405 or consent of department</b>
	1		11:00-11:50	M	W	F	LS 323
			10:00-11:50	Tu	Th	LS 315	Gray
T408-4 <sup>2</sup>			<b>Radioisotopes, Principles and Practices</b>				<b>Biochemistry, Physiology or consent of department</b>
		1	8:00-8:50	MTuW		Ag 168	Tweedy
			8:00-9:50		F	Ag 167	Tweedy
411-4			<b>Bryophytes and Pteridophytes</b>				<b>Bot 300, 301</b>
	1		8:00-8:50	Tu	Th	LS 323	Kaeiser
			8:00-9:50	M	W	LS 315	Kaeiser
414-5 <sup>1</sup>			<b>Paleobotany</b>				<b>Bot 400, 301, or consent of department</b>
	1		10:00-11:50	M	W	F	LS 315
			10:00-10:50	Tu	Th	LS 323	Matten
420-4			<b>Physiology of Fungi</b>				<b>Consent of department</b>
	1		1:00-1:50	M	W	LS 315	Gray
			1:00-2:50	Tu	Th	LS 315	Gray
425a-5			<b>Advanced Plant Physiology</b>				<b>Bot 320, Chem 350</b>
	1		11:00-11:50	M	W	F	LS 307
							Ashby



Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time			
1			3:00–3:50	Tu Th	LS 311	Ashby
425c–5		<b>Advanced Plant Physiology</b>			<b>Bot 320, Chem 350</b>	
	1		2:00–2:50	M	LS 323	Schmid
			1:00–1:50	TuW	LS 323	Schmid
			2:00–3:50	Tu Th	LS 311	Schmid
440–4		<b>Ecology of Grasses and Grasslands</b>			<b>GSA 340 or consent</b>	
1	1		8:00–8:50	Tu Th	LS 323	Voigt
		To be arranged		S	LS 307	Voigt
445–5		<b>Ecology of Forests</b>			<b>GSA 340</b>	
	1		2:00–2:50	Tu Th	LS 323	Ashby
		To be arranged		S	LS 315	Ashby
449–3		<b>Elements of Taxonomy</b>			<b>GSA 309 or Bot 313 or consent of department</b>	
	1		3:00–3:50	Tu	LS 323	Eshbaugh
			1:00–4:50	Th	LS 308	Eshbaugh
450–3		<b>Plant Geography</b>			<b>Consent of department</b>	
1			3:00–3:50	MTu Th	LS 323	Eshbaugh
456–5 <sup>1</sup>		<b>Plant Pathology</b>			<b>Consent of department</b>	
1			10:00–10:50	M W F	LS 323	Pappelis
			10:00–11:50	Tu Th	LS 307	Pappelis
2			10:00–10:50	M W F	LS 323	Pappelis
			11:00–12:50	M W	LS 307	Pappelis
457–4		<b>Forest Pathology</b>			<b>Bot 456 or consent of department</b>	
1			3:00–3:50	M Th	LS 323	Pappelis
			3:00–4:50	Tu F	LS 315	Pappelis
470–4		<b>Methods in Teaching Biology</b>			<b>Bot, Biol, or Zool major</b>	
1			3:00–4:50	MTu Th	LS 307	Marberry
T506–2		<b>Laboratory Methods for Radioisotopes</b>			<b>Pl Ind 406 or consent of department</b>	
510–4 <sup>3</sup>		<b>Bioecology</b>			<b>Consent of department</b>	
1			8:00–8:50	Tu Th	LS 204	Lefebvre
			8:00–11:50	S	LS 209	Lefebvre
522–5		<b>Advanced Microtechnique</b>			<b>GSA 201b</b>	
1			3:00–3:50	M W F	811 S. Elizabeth	Olah
			3:00–4:50	Tu Th	811 S. Elizabeth	Olah
526–5		<b>Cytogenetics</b>			<b>Bot 315 or consent of department</b>	
1			11:00–11:50	M W F	LS 323	Olah
			10:00–11:50	Tu Th	LS 315	Olah
535–3		<b>Energetics of Aquatic Ecosystems</b>			<b>Consent of department</b>	
1			10:00–10:50	M W	LS 307	Verduin
1		To be arranged		S		Verduin
542–3		<b>Biosystematics</b>			<b>Bot 315, Zool 401 or consent of department</b>	
1			10:00–10:50	Tu ThF	LS 323	Eshbaugh
543–5		<b>Experimental Ecology</b>			<b>Bot 320, GSA 340, or consent of department</b>	
	1		3:00–4:50	M F	LS 307	Ashby
			4:00–4:50	W	LS 307	Ashby
			3:00–4:50	Tu Th	LS 307	Ashby
555a–4		<b>Advanced Plant Pathology</b>			<b>Bot 456</b>	
1			1:00–1:50	M W	LS 315	Pappelis
			1:00–2:50	Tu Th	LS 315	Pappelis
555b–4		<b>Advanced Plant Pathology</b>			<b>Bot 555a</b>	
1			1:00–1:50	M W	LS 315	Pappelis
			1:00–2:50	Tu Th	LS 315	Pappelis
570–2 to 5		<b>Readings</b>			<b>Botany major</b>	
1	1	1	To be arranged			
580–1		<b>Seminar</b>			<b>Consent of department</b>	
					<b>Pathology student, Taxonomy student</b>	
1	1	1	3:00–3:50	W		
2	2	2	To be arranged			Pappelis
3	3	3	To be arranged			Mohlenbrock
581–4 <sup>1</sup>		<b>Advanced Systematics</b>			<b>Consent of department</b>	
1			8:00–9:50	Tu Th	LS 204	Blackwelder
590–2		<b>Introduction to Research</b>			<b>Pathology student</b>	
					<b>Taxonomy student, Botany major</b>	
1	1	1	To be arranged			Pappelis
2	2	2	To be arranged			Mohlenbrock
3	3	3	To be arranged			
591–1 to 9		<b>Research</b>			<b>Consent of advisory committee</b>	
1	1	1	To be arranged			
599–1 to 9		<b>Thesis</b>			<b>Consent of advisory committee</b>	
1	1	1	To be arranged			
600–1 to 18		<b>Dissertation</b>			<b>Consent of advisory committee</b>	
1	1	1	To be arranged			

<sup>1</sup> Cross-listed with Plant Industries.<sup>2</sup> Same as Plant Industries 406.<sup>3</sup> Cross-listed with Geology.

**BUSINESS ADMINISTRATION (BUS AD)**

500-4	Research Methods and Communications	MBA student or consent of instructor				
1		9:00-9:50	TuWThF	Cl 326	Luck	
	1	1:00-1:50	MTuWTh	Cl 326	Prell	
501-4	Quantitative Methods for Decision Making	MBA student or consent of instructor				
1		2:00-2:50	M WThF	Ag 148	F. Greenwood	
	1	1:00-1:50	M WThF	Ag 148	F. Greenwood	
502-4	Business and Society	MBA student or consent of instructor				
1		8:00-9:50	F	Cl 326	W. Greenwood	
		8:00-9:50	W	Tech A210		
510-4	Managerial Accounting and Control	MBA student or consent of instructor				
1		10:00-11:50	M Th	Cl 25	Wright	
	1	11:00-11:50	MTuW F	Cl 25	Wright	
511-4	Accounting Theory	MBA student or consent of instructor				
1		5:45-7:25 pm	Tu Th	Cl 25	Schmidlein	
512-4	Advanced Auditing	MBA student or consent of instructor				
1		10:00-11:50	Tu F	Cl 25	Page	
513-4	Certified Public Accountant and Advanced Accounting Problems	MBA student or consent of instructor				
	1	10:00-11:50	Tu F	Cl 25	Richards	
514-4	Controllershship	MBA student or consent of instructor				
	1	10:00-11:50	M Th	Cl 25	Schmidlein	
526-4 <sup>2</sup>	Managerial Economics	MBA student or consent of instructor				
1		3:00-3:50	M F	Cl 326	Allen	
		3:00-3:50	Tu Th	Comm 214		
	1	3:00-3:50	Tu ThF	Ag 170	Allen	
		3:00-3:50	M	Ag 218		
530-4	Financial Management	MBA student or consent of instructor				
1		8:00-9:50	Tu Th	Cl 326	Winn	
531-4	Financial Policies	MBA student or consent of instructor				
1		4:00-4:50	MTu ThF	Cl 25	Hong	
532-4	Financial Institutions and Markets	MBA student or consent of instructor				
1		10:00-10:50	MTu ThF	Cl 25	Fenstermaker	
539-4	Seminar in Finance	MBA student or consent of instructor				
1		5:45-7:25 pm	M W	Cl 25		
540-4	Managerial and Organizational Behavior	MBA student or consent of instructor				
1		1:00-1:50	ThF	Cl 326	Hunt	
		1:00-1:50	M W	Comm 214		
	1	2:00-2:50	TuWThF	HEc 120	Shull	
541-4	Operations Analysis and Systems Control	MBA student or consent of instructor				
1		5:45-7:25 pm	Tu Th	Ag 224	F. Greenwood	
542-4	History and Theory of Management	MBA student or consent of instructor				
1		5:45-7:25 pm	M W	Cl 25	W. Greenwood	
543-4	Personnel Management	MBA student or consent of instructor				
1		5:45-7:25 pm	M W	Cl 25	Shull	
544-4	Production Management	MBA student or consent of instructor				
1		9:00-9:50	M WThF	Cl 25	Rehn	
550-4	Marketing Management	MBA student or consent of instructor				
1		3:00-4:50	M W	Cl 326		
551-4	Product Strategy and Management	MBA student or consent of instructor				
1		5:45-7:25 pm	Tu Th	Cl 25	Prell	
553-4	Transportation Management	MBA student or consent of instructor				
1		5:45-7:25 pm	Tu Th	Cl 326		
554-4	Marketing Theory	MBA student or consent of instructor				
1		3:00-4:50	F	Cl 326		
		3:00-4:50	Tu	Ag 170		
559-4	Seminar in Marketing	MBA student or consent of instructor				
1		5:45-7:25 pm	M W	Cl 326		

Course No.—Hours	Descriptive Title	Prerequisite				
Fall	Winter	Spring	Time	Days	Place	Instructor
580-4	International Business Operations	MBA student or consent of instructor				
	1	8:00-8:50	TuWThF	Cl 25		
590-4	Independent Study	MBA student or consent of instructor				
	1	1	1	To be arranged		Hindersman
598-4	Business Policies	MBA student or consent of instructor				
		1	10:00-11:50	F	Cl 326	W. Greenwood
			10:00-11:50	Tu	M 308	
599-8	Thesis					
	1	1	1	To be arranged		Hindersman
<sup>2</sup> Cross-listed with Economics 526.						

<sup>2</sup> Cross-listed with Economics 526.

## CHEMISTRY (CHEM)

110-4	General and Inorganic Chemistry					GSA 101a or equivalent
	1		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	W	P 204	
			3:00-5:50	Tu	P 213	
	2		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	W	P 204	
			3:00-5:50	Tu	P 213	
	3		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	W	P 204	
			3:00-5:50	Th	P 213	
	4		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	W	P 204	
			3:00-5:50	Th	P 213	
	5		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	W	P 204	
			6:00-8:50	M	P 213	
	6		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	Th	P 204	
			2:00-4:50	F	P 213	
	7		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	Th	P 204	
			6:00-8:50	Tu	P 213	
	8		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	Th	P 204	
			6:00-8:50	M	P 213	
	9		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	Th	P 204	
			6:00-8:50 pm	Tu	P 213	
	10		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	Th	P 204	
			2:00-4:50	F	P 213	
	11		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	W	P 204	
			6:00-8:50 pm	Th	P 206	
	12		8:00-8:50	M W F	Browne	Brown
			3:00-3:50	Th	P 204	
			6:00-8:50 pm	Tu	P 206	
	1		8:00-8:50	M W F	Browne	Brown
			9:00-9:50	Th	P 204	
			8:00-10:50	S	P 213	
	2		8:00-8:50	M W F	Browne	Brown
			9:00-9:50	Th	P 204	
			2:00-4:50	F	P 213	
	3		8:00-8:50	M W F	Browne	Brown
			9:00-9:50	Th	P 204	
			12:00-2:50	Th	P 213	
	4		8:00-8:50	M W F	Browne	Brown
			9:00-9:50	Th	P 204	
			6:00-8:50 pm	W	P 200	
	5		8:00-8:50	M W F	Browne	Brown
			9:00-9:50	Th	P 204	
			12:00-2:50	Tu	P 200	
	6		8:00-8:50	M W F	Browne	Brown
			9:00-9:50	Th	P 204	
			12:00-2:50	Th	P 200	
	17		8:00-8:50	M W F	Browne	Brown
			9:00-9:50	Th	P 204	
			6:00-8:50 pm	M	P 200	
	18		8:00-8:50	M W F	Browne	Brown
			9:00-9:50	Th	P 204	
			3:00-5:50	Th	P 200	



Course No.—Hours		Descriptive Title	Time		Days		Place	Prerequisite Instructor
Fall	Winter	Spring						
111a-5			General Inorganic Chemistry .....				Limited to those who have not had high school chemistry	
1			3:00-3:50	M	W	F	Browne	Neckers
			1:00-1:50	M			P 204	
			6:00-7:50 pm	M	W		P 213	
2			3:00-3:50	M	W	F	Browne	Neckers
			1:00-1:50	M			P 204	
			2:00-3:50		Tu	Th	P 213	
3			3:00-3:50	M	W	F	Browne	Neckers
			1:00-1:50	M			P 204	
			8:00-9:50			Th S	P 213	
4			3:00-3:50	M	W	F	Browne	Neckers
			1:00-1:50	M			P 204	
			10:00-11:50		Tu	F	P 213	
5			12:00-12:50		W		Browne	
			1:00-1:50		Tu	F	Browne	
			3:00-3:50		Tu		P 204	
6			6:00-7:50 pm		Tu	Th	P 213	
			12:00-12:50			W	Browne	
			1:00-1:50		Tu	F	Browne	
7			3:00-3:50		Tu		P 204	
			4:00-5:50		Tu	Th	P 213	
			12:00-12:50			W	Browne	
8			1:00-1:50		Tu	F	Browne	
			3:00-3:50		Tu		P 204	
			8:00-9:50		Tu	F	P 206	
9			12:00-12:50			W	Browne	
			1:00-1:50		Tu	F	Browne	
			3:00-3:50		Tu		P 204	
		4:00-5:50	M	W		P 206		
111b-5			General Inorganic Chemistry .....				111a or 1 year high school chemistry	
1			9:00-9:50	M	W	F	Browne	Neckers
			9:00-9:50		Tu		P 204	
			8:00-9:50			Th S	P 200	
2			9:00-9:50	M	W	F	Browne	Neckers
			9:00-9:50		Tu		P 204	
			10:00-11:50			Th S	P 200	
3			9:00-9:50	M	W	F	Browne	Neckers
			9:00-9:50		Tu		P 204	
			12:00-1:50	M	W		P 200	
4			9:00-9:50	M	W	F	Browne	Neckers
			9:00-9:50		Tu		P 204	
			4:00-5:50	M	W		P 200	
5			9:00-9:50	M	W	F	Browne	Neckers
			9:00-9:50		Tu		P 204	
			2:00-3:50		Tu	Th	P 200	
6			10:00-10:50		Tu	Th S	Browne	Neckers
			2:00-2:50		Tu		P 204	
			4:00-5:50		Tu	Th	P 200	
7			11:00-11:50		Tu	Th S	Browne	Neckers
			10:00-10:50			Th	P 204	
			12:00-1:50		Tu	Th	P 200	
8			11:00-11:50		Tu	Th S	Browne	
			10:00-10:50			Th	P 204	
			6:00-7:50 pm	M	W		P 200	
9			11:00-11:50		Tu	Th S	Browne	
			10:00-10:50			Th	P 204	
			12:00-1:50	M	W		P 213	
10			11:00-11:50		Tu	Th S	Browne	
			10:00-10:50			Th	P 204	
			12:00-1:50		Tu	Th	P 213	
11			11:00-11:50		Tu	Th S	Browne	
			10:00-10:50			Th	P 204	
			10:00-11:50	M	W		P 213	
12			10:00-10:50		Tu	Th S	Browne	
			2:00-2:50		Tu		P 204	
			8:00-9:50		Tu	F	P 213	
13			2:00-2:50			W	Browne	Van Lente
			3:00-3:50		Tu	Th	Browne	
			2:00-2:50	M			P 204	
		8:00-9:50	M	W		P 200		

Course No.—Hours		Descriptive Title				Prerequisite Instructor	
Fall	Winter		Spring	Time	Days		Place
14		2:00–2:50		W		Browne	Van Lente
		3:00–3:50		Tu Th		Browne	
		2:00–2:50	M			P 204	
		10:00–11:50	M	W		P 200	
15		2:00–2:50		W		Browne	Van Lente
		3:00–3:50		Tu Th		Browne	
		2:00–2:50	M			P 204	
		6:00–7:50 pm		Tu Th		P 200	
16		2:00–2:50		W		Browne	Van Lente
		3:00–3:50		Tu Th		Browne	
		2:00–2:50	M			P 204	
		4:00–5:50	M	W		P 213	
17		2:00–2:50		W		Browne	Van Lente
		3:00–3:50		Tu Th		Browne	
		2:00–2:50	M			P 206	
		10:00–11:50			Th S	P 213	
18		10:00–10:50		Tu	Th S	Browne	
		2:00–2:50		Tu		P 204	
		8:00–9:50	M	W		P 213	
19		6:00–7:25 pm	M	W		P 204	
		9:00–9:50			F	P 204	
		8:00–9:50	M	W		P 206	Musulin
20		6:00–7:25 pm	M	W		P 204	
		9:00–9:50			F	P 204	
		8:00–9:50			Th S	P 206	
21		6:00–7:25 pm	M	W		P 204	Musulin
		9:00–9:50			F	P 204	
		10:00–11:50	M	W		P 206	Musulin
22		6:00–7:25 pm	M	W		P 204	
		9:00–9:50			F	P 204	
		6:00–7:50 pm		Tu Th		P 206	
23		6:00–7:25 pm	M	W		P 204	Musulin
		9:00–9:50			F	P 204	
		1:00–2:50	M	W		P 206	Musulin
24		9:00–9:50	M	W	F	Browne	
		9:00–9:50		Tu		P 204	
		10:00–11:50			Th S	P 206	
25		11:00–11:50		Tu	Th S	Browne	
		10:00–10:50			Th	P 204	
		1:00–2:50		Tu	Th	P 206	
26		10:00–10:50		Tu	Th S	Browne	
		2:00–2:50		Tu		P 204	
		2:00–3:50	M	W		P 200	
27		10:00–10:50		Tu	Th S	Browne	
		2:00–2:50		Tu		P 204	
		2:00–3:50	M	W		P 213	
28		10:00–10:50		Tu	Th S	Browne	
		2:00–2:50		Tu		P 204	
		2:00–3:50	M	W		P 206	
	1	9:00–9:50	M	W	F	Browne	Neckers
		3:00–3:50	M			P 204	
		4:00–5:50	M	W		P 206	Neckers
2		9:00–9:50	M	W	F	Browne	
		3:00–3:50	M			P 204	
		2:00–3:50		Tu Th		P 200	
	3	9:00–9:50	M	W	F	Browne	Neckers
		3:00–3:50	M			P 204	
		4:00–5:50		Tu Th		P 200	Neckers
4		9:00–9:50	M	W	F	Browne	
		3:00–3:50	M			P 204	
		10:00–11:50			Th S	P 213	
	5	9:00–9:50	M	W	F	Browne	Neckers
		3:00–3:50	M			P 204	
		8:00–9:50		Tu Th		P 206	Neckers
26		9:00–9:50	M	W	F	Browne	
		3:00–3:50	M			P 206	
		4:00–5:50		Tu Th		P 200	
	7	6:00–7:25 pm		Tu Th		Browne	Neckers
		1:00–1:50	M			P 204	
		12:00–1:50		Tu Th		P 206	
8		6:00–7:25 pm		Tu Th		Browne	
		1:00–1:50	M			P 204	
		2:00–3:50	M	W		P 213	
	9	6:00–7:25 pm		Tu Th		Browne	
		1:00–1:50	M			P 204	
		12:00–1:50		Tu Th		P 200	

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>111b-5 General Inorganic Chemistry</b>							
	10	6:00-7:25 pm	Tu Th			Browne	
		1:00-1:50	M			P 204	
		1:00-2:50	Tu Th			P 213	
	11	6:00-7:25 pm	Tu Th			Browne	
		1:00-1:50	M			P 204	
		2:00-3:50	Tu Th			P 206	
	12	6:00-7:25 pm	Tu Th			Browne	
		1:00-1:50	M			P 204	
		2:00-3:50	M W			P 206	
<b>111c-5 General Inorganic Chemistry</b>							
	1	9:00-9:50	Tu Th			Browne	111b Van Lente
		1:00-1:50	Tu			P 204	
		8:00-9:50	M W F			P 200	
	2	9:00-9:50	Tu Th			Browne	Van Lente
		1:00-1:50	Tu			P 204	
		10:00-11:50	Tu Th S			P 200	
	3	9:00-9:50	Tu Th			Browne	Van Lente
		1:00-1:50	Th			P 204	
		4:00-5:50	M W F			P 200	
	4	9:00-9:50	Tu Th			Browne	Van Lente
		1:00-1:50	Th			P 204	
		8:00-9:50	M W F			P 213	
	5	8:00-8:50	Tu Th			P 204	
		9:00-9:50	Th			P 204	
		10:00-11:50	Tu Th S			P 206	
	6	10:00-10:50	Tu Th			Browne	
		2:00-2:50	Tu			P 204	
		10:00-11:50	M W F			P 200	
	7	10:00-10:50	Tu Th			Browne	
		2:00-2:50	Tu			P 204	
		12:00-1:50	M W F			P 200	
	8	10:00-10:50	Tu Th			Browne	
		2:00-2:50	Th			P 204	
		8:00-9:50	Tu Th S			P 213	
	9	10:00-10:50	Tu Th			Browne	
		2:00-2:50	Th			P 204	
		12:00-1:50	M W F			P 213	
	10	8:00-8:50	Tu Th			P 204	
		9:00-9:50	Th			P 204	
		8:00-9:50	M W F			P 206	
	11	11:00-11:50	Tu Th			Browne	Neckers
		1:00-1:50	W			P 204	
		8:00-9:50	Tu Th S			P 200	
	12	11:00-11:50	Tu Th			Browne	Neckers
		1:00-1:50	W			P 204	
		2:00-3:50	M W F			P 200	
	13	11:00-11:50	Tu Th			Browne	Neckers
		1:00-1:50	W			P 204	
		10:00-11:50	M W F			P 213	
	14	11:00-11:50	Tu Th			Browne	Neckers
		3:00-3:50	Tu			P 204	
		6:00-9:00 pm	M W			P 200	
	15	11:00-11:50	Tu Th			Browne	Neckers
		3:00-3:50	Tu			P 204	
		10:00-11:50	M W F			P 206	
	16	8:00-8:50	Tu Th			P 204	
		11:00-11:50	Th			P 204	
		6:00-8:50 pm	Tu Th			P 200	
	17	8:00-8:50	Tu Th			P 204	
		11:00-11:50	Th			P 204	
		12:00-1:50	M W F			P 206	
	18	8:00-8:50	Tu Th			P 204	
		9:00-9:50	Th			P 204	
		6:00-8:50 pm	M W			P 206	
	1	9:00-9:50	Tu Th			Browne	Van Lente
		1:00-1:50	Tu			P 204	
		8:00-9:50	M W F			P 200	
	2	9:00-9:50	Tu Th			Browne	Van Lente
		1:00-1:50	Tu			P 204	
		12:00-1:50	M W F			P 200	
	3	9:00-9:50	Tu Th			Browne	Van Lente
		1:00-1:50	Th			P 204	
		10:00-11:50	Tu Th S			P 200	
	4	9:00-9:50	Tu Th			Browne	Van Lente
		1:00-1:50	Th			P 204	
		10:00-11:50	M W F			P 213	



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
		5	9:00–9:50 1:00–1:50 12:00–1:50	Tu	Th	Browne P 204 P 213	Van Lente
		6	1:00–1:50 2:00–2:50 8:00–9:50	Tu	Th	Browne P 204 P 200	Neckers Neckers
		7	1:00–1:50 2:00–2:50 10:00–11:50	Tu	Th	Browne P 204 P 200	Neckers
		8	1:00–1:50 2:00–2:50 2:00–3:50	Tu	Th	Browne P 204 P 200	Neckers
		9	1:00–1:50 2:00–2:50 6:00–8:50 pm	Tu	Th	Browne P 204 P 200	Neckers
		10	1:00–1:50 2:00–2:50 8:00–9:50	Tu	Th	Browne P 204 P 213	Neckers
235–5	General Quantitative Analysis					111c	and logarithms
1			1:00–1:50 1:00–3:50	M	W	F P 103	
2			1:00–1:50 8:00–10:50	M	W	F P 103	
3			1:00–1:50 2:00–4:50	M	W	F P 103	
T4			1:00–1:50 8:00–10:50	M	W	F P 103	
	1		2:00–2:50 1:00–3:50	M	W	F P 103	
	T2		2:00–2:50 8:00–10:50	M	W	F P 103	
	1		2:00–2:50 1:00–3:50	M	W	F P 103	
	2		2:00–2:50 8:00–10:50	M	W	F P 103	
	3		2:00–2:50 3:00–5:50	M	W	F P 103	
	T4		2:00–2:50 8:00–10:50	M	W	F P 103	
T240–4	Organic Chemistry					110 or 111b	
	1		1:00–1:50 3:00–3:50 8:00–10:50	M	W	F P 204 P 213	Brown
	2		1:00–1:50 3:00–3:50 8:00–10:50	M	W	F P 204 P 213	Brown
	3		1:00–1:50 3:00–3:50 2:00–4:50	M	W	F P 204 P 213	Brown
	4		1:00–1:50 11:00–11:50 2:00–4:50	M	W	F P 204 P 213	Brown
	5		1:00–1:50 3:00–3:50 12:00–2:50	M	W	F P 204 P 213	Brown
	6		1:00–1:50 11:00–11:50 3:00–5:50	M	W	F P 204 P 213	Brown
	7		1:00–1:50 11:00–11:50 3:00–5:50	M	W	F P 204 P 213	Brown
	8		1:00–1:50 11:00–11:50 6:00–8:50 pm	M	W	F P 204 P 213	Brown
	T9		1:00–1:50 3:00–3:50 6:00–8:50 pm	M	W	F P 204 P 213	Brown
	T10		1:00–1:50 11:00–11:50 6:00–8:50 pm	M	W	F P 204 P 213	Brown
	T11		1:00–1:50 11:00–11:50 6:00–8:50 pm	M	W	F P 204 P 213	Brown
305a–4	Organic Chemistry, Preprofessional					111c	
1			11:00–11:50 8:00–10:50	M	W	F P 205	Hadley
2			11:00–11:50 8:00–10:50	M	W	F P 205	Hadley

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>305a-4 Organic Chemistry, Preprofessional</b>							<b>111c</b>
3			11:00-11:50	M	W	F	Browne
			12:00-2:50		Tu		P 205
4			11:00-11:50	M	W	F	Browne
			12:00-2:50		Th		P 205
5			11:00-11:50	M	W	F	Browne
			6:00-8:50 pm	M			P 205
6			11:00-11:50	M	W	F	Browne
			8:00-10:50			F	P 205
T7			11:00-11:50	M	W	F	Browne
			8:00-10:50			S	P 205
	1		11:00-11:50	M	W	F	Browne
			1:00-3:50			F	P 205
	2		11:00-11:50	M	W	F	Browne
			8:00-10:50		W		P 205
	T3		11:00-11:50	M	W	F	Browne
			8:00-10:50	M			P 205
<b>305b-5 Organic Chemistry, Preprofessional</b>							
1			11:00-11:50	M	W	F	Browne
			8:00-10:50	M	W		P 205
2			11:00-11:50	M	W	F	Browne
			3:00-5:50 pm	M	W		P 205
3			11:00-11:50	M	W	F	Browne
			3:00-5:50 pm		Tu	Th	P 205
4			11:00-11:50	M	W	F	Browne
			6:00-8:50 pm	M	W		P 205
5			11:00-11:50	M	W	F	Browne
			6:00-8:50 pm		Tu	Th	P 205
T6			11:00-11:50	M	W	F	Browne
			1:00-3:50			F	
			8:00-10:50			S	P 205
<b>341a-5 Organic Chemistry</b>							<b>111c</b>
1			8:00-8:50	M	W	F	P 204
			8:00-10:50		Tu	Th	P 205
2			8:00-8:50	M	W	F	P 204
			12:00-2:50	M	W		P 205
3			8:00-8:50	M	W	F	P 204
			3:00-5:50		Tu	Th	P 205
4			8:00-8:50	M	W	F	P 204
			3:00-5:50	M	W		P 205
<b>341b-5 Organic Chemistry</b>							<b>341a</b>
1			8:00-8:50	M	W	F	P 204
			8:00-10:50		Tu	Th	P 205
2			8:00-8:50	M	W	F	P 204
			12:00-2:50	M	W		P 205
3			8:00-8:50	M	W	F	P 204
			12:00-2:50		Tu	Th	P 205
<b>341c-5 Organic Chemistry</b>							<b>341b</b>
1			8:00-8:50	M	W	F	P 204
			8:00-10:50		Tu	Th	P 205
2			8:00-8:50	M	W	F	P 204
			1:00-3:50		Tu	Th	P 205
T3			8:00-8:50	M	W	F	P 204
			1:00-3:50	M	W		P 205
<b>350-4 Biological Chemistry</b>							<b>305b, 341c or GSA 101c, Chem 101c</b>
1			1:00-1:50	M	W	F	P 204
			2:00-4:50		W		P 206
2			1:00-1:50	M	W	F	P 204
			1:00-3:50		Th		P 206
3			1:00-1:50	M	W	F	P 204
			8:00-10:50		Th		P 206
4			1:00-1:50	M	W	F	P 204
			6:00-8:50 pm		Tu		P 206
5			1:00-1:50	M	W	F	P 204
			2:00-4:50	M			P 206
<b>375-0 to 1 Senior Seminar</b>							<b>Senior standing</b>
1	1		To be arranged				
<b>411-4 Intermediate Inorganic Chemistry</b>							<b>461b or concurrent enrollment</b>
1			2:00-2:50	MTuW	F	P 111	
<b>412-3 Inorganic Preparations</b>							<b>411</b>
1			2:00-2:50		Tu	P 111	
			Lab to be arranged				
<b>432a-4 Instrumental Analytical Measurements</b>							<b>461b or concurrent enrollment</b>
1			6:00-7:35 pm	Tu	Th	P 111	
			1:00-5:50		W	P 103	

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
432b-4		Instrumental Analytical Measurements					432a
	1	8:00-10:50			F	P 103	
		3:00-3:50		Tu Th		P 111	
433-3		Intermediate Quantitative Analysis					432a and 461c
1		1:00-3:50			F	P 103	
		1:00-1:50		Tu Th		P 111	
	1	1:00-1:50		Tu Th		P 111	
		1:00-3:50			F	P 103	
438-3		Review of Analytical Chemistry					
	1	9:00-9:50		M W F		P 111	
444-3		Intermediate Organic Chemistry					
1		10:00-10:50		M W F		P 111	
446-4		Qualitative Organic Analysis					
	1	8:00-8:50		Tu Th		P 111	
		8:00-10:50		M W		P 205 West	
451a-3		Biochemistry					
1		8:00-8:50		M W F		P 111	
451b-3 to 4		Biochemistry					
	1	8:00-8:50		M W F		P 111	
		8:00-10:50		Tu		P 205 West	
	2	8:00-8:50		M W F		P 111	
		2:00-4:50		W		P 205 West	
451c-3 to 4		Biochemistry					
	1	8:00-8:50		M W F		P 111	
		8:00-10:50		Tu		P 206	
	2	8:00-8:50		M W F		P 111	
		1:00-3:50		Tu		P 206	
460-5		Theoretical Chemistry					235 and 305b or 341c
	1	2:00-2:50		M W F		P 111	
		9:00-11:50		Tu Th		P 104	
	2	2:00-2:50		M W F		P 111	
		1:00-3:50		Tu Th		P 104	
	T3	2:00-2:50		M W F		P 111	
		6:00-8:50		Tu Th		P 104	
461a-4		Physical Chemistry					Math 252b and 1 yr college physics
	1	11:00-11:50		M W F		P 204	
		8:00-10:50		Th		P 104	
	2	11:00-11:50		M W F		P 111	Van Lente
		1:00-3:50		Tu		P 104	
	3	11:00-11:50		M W F		P 111	Van Lente
		1:00-3:50		Th		P 104	
	T4	11:00-11:50		M W F		P 111	Van Lente
		8:00-10:50		Tu		P 104	
461b-4		Physical Chemistry					
	1	11:00-11:50		M W F		P 204	
		1:00-3:50		Tu		P 104	
	2	11:00-11:50		M W F		P 111	Van Lente
		1:00-3:50		Th		P 104	
	T3	11:00-11:50		M W F		P 111	Van Lente
		8:00-10:50		Th		P 104	
461c-4		Physical Chemistry					
	1	11:00-11:50		M W F		P 204	
		1:00-3:50		M		P 104	
	2	11:00-11:50		M W F		P 111	Van Lente
		1:00-3:50		W		P 104	
	T3	11:00-11:50		M W F		P 111	Van Lente
		1:00-3:50		F		P 104	
464-3		Intermediate Physical Chemistry					461c
	1	3:00-3:50		M W F		P 111	
471-3		Industrial Chemistry					305b or 341c
	1	9:00-9:50		M W F		P 111	Hadley
T472a-4 <sup>1</sup>		X-Ray Crystallography					461c
	1	4:00-4:50		M W		Tech B109	
		3:00-4:50			F	Tech B109	
T472b-4 <sup>2</sup>		X-Ray Crystallography					472a
	1	4:00-4:50		M W		Tech B109	
		3:00-4:50			F	Tech B109	
490-2		Chemistry Literature					235, 305b or 341c, GSD 126c
							noncurrent enrollment
	1	3:00-3:50		Tu Th		P 111	Trimble
	1	2:00-2:50		Tu Th		P 111	Trimble
496a-2 to 4		Chemical Problems, Analysis					Consent of department
	1	1	1	To be arranged		P 112	
496b-2 to 4		Chemical Problems, Biochemistry					Consent of department
	1	1	1	To be arranged		P 112	



## 100 CHEMISTRY (CHEM)

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
496c-2 to 4		Chemical Problems, Inorganic			Consent of department
1	1	1	To be arranged	P 112	
496d-2 to 4		Chemical Problems, Organic			Consent of department
1	1	1	To be arranged	P 112	
496e-2 to 4		Chemical Problems, Physical			Consent of department
1	1	1	To be arranged	P 112	
511a-3		Advanced Inorganic Chemistry			411
1		1:00-1:50	M W F	P 111	
511b-3		Advanced Inorganic Chemistry			511a
1		1:00-1:50	M W F	P 111	
511c-3		Advanced Inorganic Chemistry			511b
1		10:00-10:50	M W F	P 204	
517-3		Laboratory Techniques in Inorganic Chemistry			412
1	1	1	To be arranged	P 112	
519-3		Advanced Topics in Inorganic Chemistry			Consent of department
1	1	1	To be arranged		
531-3		Theory of Quantitative Analysis			
1		9:00-9:50	Tu Th S	P 111	
532-3		Instrumental Methods of Analysis			432a
1		11:00-11:50	Tu Th	P 111	
		Lab to be arranged			
539-3		Advanced Topics in Analytical Chemistry			Consent of department
1	1	1	To be arranged		
541-3		Advanced Organic Chemistry			444
1		9:00-9:50	M W F	P 204	
542-3		Advanced Organic Chemistry			541
1		9:00-9:50	M W F	P 204	
543-3		Advanced Organic Chemistry			541
1		3:00-3:50	M W F	P 204	
547-3		Advanced Laboratory Preparation in Organic Chemistry			446
1	1	1	To be arranged	P 112	
549-3		Advanced Topics Organic Chemistry			Consent of department
1	1	1	To be arranged		
551-3		Advanced Biochemistry			451c
1		9:00-9:50	Tu Th S	P 111	
553-3		Advanced Biochemistry			451c
1		10:00-10:50	M W F	P 204	
555-3		Enzymes			451c
1		10:00-10:50	M W F	P 111	
559-2 to 6		Advanced Topics in Biochemistry			Consent of department
1		To be arranged			
561-3		Chemical Thermodynamics			461c
1		3:00-3:50	M W F	P 111	
562-3		Atomic and Molecular Structure			561
1		3:00-3:50	M W F	P 111	
563-3		Chemical Kinetics			561
1		4:00-4:50	M W F	P 111	
594a-3		Special Readings in Chemistry—Analytical			Consent of department
1	1	1	To be arranged		
594b-3		Special Readings in Chemistry—Biochemistry			Consent of department
1	1	1	To be arranged		
594c-3		Special Readings in Chemistry—Inorganic			Consent of department
1	1	1	To be arranged		
594d-3		Special Readings in Chemistry—Organic			Consent of department
1	1	1	To be arranged		
594e-3		Special Readings in Chemistry—Physical			Consent of department
1	1	1	To be arranged		
595a-0 to 1		Advanced Seminar in Chemistry—Analytical			Consent of department
1	1	1	4:00-4:50	M	P 204
595b-0 to 1		Advanced Seminar in Biochemistry			Consent of department
1	1	1	4:00-4:50	Tu	P 204
595c-0 to 1		Advanced Seminar in Inorganic			Consent of department
1	1	1	4:00-4:50	W	P 204

Course No.—Hours	Fall	Winter	Spring	Descriptive Title	Time	Days	Place	Prerequisite	Instructor
595d-0 to 1				Advanced Seminar in Organic				Consent of department	
1	1	1	1	4:00-4:50		F	P 204		
595e-0 to 1				Advanced Seminar in Physical				Consent of department	
1	1	1	1	4:00-4:50		Th	P 204		
596a-3 to 9				Advanced Problems—Analytical				Consent of department	
1	1	1	1	To be arranged					
596b-3 to 9				Advanced Chemical Problems—Biochemistry				Consent of department	
1	1	1	1	To be arranged					
596c-3 to 9				Advanced Chemical Problems—Inorganic				Consent of department	
1	1	1	1	To be arranged					
596d-3 to 9				Advanced Chemical Problems—Organic				Consent of department	
1	1	1	1	To be arranged					
596e-3 to 9				Advanced Chemical Problems—Physical				Consent of department	
1	1	1	1	To be arranged					
597a-3 to 9				Research and Thesis—Analytical				Consent of department	
1	1	1	1	To be arranged			P 107		
597b-3 to 9				Research and Thesis—Biochemical				Consent of department	
1	1	1	1	To be arranged			P 107		
597c-3 to 9				Research and Thesis—Inorganic				Consent of department	
1	1	1	1	To be arranged			P 107		
597d-3 to 9				Research and Thesis—Organic				Consent of department	
1	1	1	1	To be arranged			P 107		
597e-3 to 9				Research and Thesis—Physical				Consent of department	
1	1	1	1	To be arranged			P 107		
598a-3 to 9				Research—Doctoral (Analytical)				Consent of department	
1	1	1	1	To be arranged					
598b-3 to 9				Research—Doctoral (Biochemistry)				Consent of department	
1	1	1	1	To be arranged					
598c-3 to 9				Research—Doctoral (Inorganic)				Consent of department	
1	1	1	1	To be arranged					
598d-3 to 9				Research—Doctoral (Organic)				Consent of department	
1	1	1	1	To be arranged					
598e-3 to 9				Research—Doctoral (Physical)				Consent of department	
1	1	1	1	To be arranged					
600a-3 to 12				Dissertation—Analytical				Consent of department	
1	1	1	1	To be arranged					
600b-3 to 12				Dissertation—Biochemistry				Consent of department	
1	1	1	1	To be arranged					
600c-3 to 12				Dissertation—Inorganic				Consent of department	
1	1	1	1	To be arranged					
600d-3 to 12				Dissertation—Organic				Consent of department	
1	1	1	1	To be arranged					
600e-3 to 12				Dissertation—Physical				Consent of department	
1	1	1	1	To be arranged					

<sup>1</sup> Cross-listed with Ap S 401a.<sup>2</sup> Cross-listed with Ap S 401c.

## CLOTHING AND TEXTILES (C &amp; T)

127-4	Clothing Selection and Construction					
1	8:00-9:50	M	W	HEc 310	Ridley	
	9:00-9:50	Tu	Th	HEc 140b		
2	9:00-9:50	Tu	Th	HEc 140b	Ridley	
	10:00-11:50	Tu	Th	HEc 304		
3	9:00-9:50	Tu	Th	HEc 140b	Ridley	
	3:00-4:50	M	W	HEc 310		
T4	9:00-9:50	Tu	Th	HEc 140b	Ridley	
	2:00-3:50		W F	HEc 304		
1	10:00-10:50	M	Th	L 131	Ridley	
	10:00-11:50	Tu	F	HEc 310		

# 102 CLOTHING AND TEXTILES (C & T)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>127-4 Clothing Selection and Construction</b>							
	2	10:00-10:50	M Th	L 131		Ridley	
		10:00-11:50	W S	HEc 310			
	3	10:00-10:50	M Th	L 131		Ridley	
		1:00-2:50	Tu Th	HEc 310			
	4	10:00-10:50	M Th	L 131		Ridley	
		3:00-4:50	M W	HEc 304			
<b>131-3 Applied Design</b>							
	1	8:00-8:50	Tu Th	HEc 140b		Slack	
		12:00-1:50	M	HEc 304			
	2	8:00-8:50	Tu Th	HEc 140b		Slack	
		8:00-9:50	W	HEc 304			
	3	8:00-8:50	Tu Th	HEc 140b		Slack	
		8:00-9:50	F	HEc 304			
	4	8:00-8:50	Tu Th	HEc 140b		Slack	
		8:00-9:50	S	HEc 304			
	t5	8:00-8:50	Tu Th	HEc 140b		Slack	
		2:00-3:50	Tu	HEc 304			
	1	12:00-12:50	M W	HEc 140b		Slack	
		3:00-4:50	Th	HEc 304			
	2	12:00-12:50	M W	HEc 140b		Slack	
		11:00-12:50	Th	HEc 304			
	3	12:00-12:50	M W	HEc 140b		Slack	
		11:00-12:50	F	HEc 304			
	4	12:00-12:50	M W	HEc 140b		Slack	
		2:00-3:50	Tu	HEc 304			
	t5	12:00-12:50	M W	HEc 140b		Slack	
		8:00-9:50	W	HEc 304			
<b>135-3 Textiles</b>							
	1	11:00-11:50	M	L 201		Padgett	
		11:00-11:50	Th	L 221			
		10:00-11:50	Tu	HEc 301			
	2	11:00-11:50	M	L 201		Padgett	
		11:00-11:50	Th	L 221			
		10:00-11:50	W	HEc 301			
	3	11:00-11:50	M	L 201		Padgett	
		11:00-11:50	Th	L 221			
		10:00-11:50	F				
	1	9:00-9:50	Tu Th	HEc 140b			
		8:00-9:50	M	HEc 301		Padgett	
	2	9:00-9:50	Tu Th	HEc 140b		Padgett	
		8:00-9:50	W	HEc 301			
	t3	9:00-9:50	Tu Th	HEc 140b		Padgett	
		8:00-9:50	F	HEc 301			
<b>145-3 Three Dimensioned Arrangement</b>							
	1	9:00-9:50	M W F	HEc 304			
<b>231-3 Applied Design</b>							
	1	1:00-1:50	M Th	HEc 303		Slack	
		1:00-2:50	Tu	HEc 304			
	2	1:00-1:50	M Th	HEc 303		Slack	
		1:00-2:50	F	HEc 304			
<b>233-3 Pattern Designing and Clothing Construction</b>							
	1	1:00-2:50	M W	HEc 310		Ridley	
	2	3:00-4:50	Tu Th	HEc 310		Berry	
	1	8:00-9:50	Tu Th	HEc 310		Ridley	
	2	8:00-9:50	W F	HEc 310		Ridley	
<b>251-3 Clothing Selection and Care</b>							
	1	11:00-11:50	M W F	HEc 303		Ridley	
<b>300-2 to 4 Display</b>							
	1	3:00-4:50	M Th	HEc 304		Slack	
	1	3:00-4:50	M W	HEc 304		Slack	
<b>322-3 Advanced Textiles</b>							
	1	3:00-3:50	M F	HEc 301		Padgett	
		3:00-4:50	W	HEc 301			
<b>323-2 Housing</b>							
	1	3:00-3:50	Tu	HEc 140b		Phillips	
		3:00-4:50	Th	HEc 304			
	1	8:00-9:50	Tu	HEc 304		Stewart	
		9:00-9:50	Th	HEc 303			
	t2	3:00-3:50	Tu	HEc 140b		Phillips	
		3:00-4:50	F	HEc 304			
<b>327-3 Home Furnishings and Interiors</b>							
	1	1:00-1:50	Tu Th	HEc 140b			
		12:00-1:50	M	HEc 304		Phillips	
	2	1:00-1:50	Tu Th	HEc 140b		Phillips	
		1:00-2:50	W	HEc 304			



Course No.—Hours		Descriptive Title		Days		Place		Prerequisite Instructor
Fall	Winter	Spring	Time					
		3	1:00-1:50	Tu	Th	HEc 140b		Phillips
			1:00-2:50		F	HEc 304		
331-3	Applied Design					131	or consent of instructor	
	1		8:00-8:50	M	Th	HEc 303		Slack
			8:00-9:50	Tu		HEc 304		
	2		8:00-8:50	M	Th	HEc 303		Slack
			8:00-9:50		F	HEc 304		
334-3	Costume Design						127, 131	
	1		9:00-9:50	M	WTh	HEc 310		Berry
			8:00-8:50		W	HEc 310		
360-4	Tailoring and Clothing Construction						233	
	1		10:00-10:50	M	Th	HEc 140b		Berry
			10:00-11:50	Tu	F	HEc 310		
	2		10:00-10:50	M	Th	HEc 140b		Berry
			10:00-11:50		W S	HEc 310		
	3		10:00-10:50	M	Th	HEc 140b		Berry
			1:00-2:50	Tu	Th	HEc 310		
	4		10:00-10:50	M	Th	HEc 140b		
			1:00-2:50	M	W	HEc 310		Berry
364-3	Draping and Construction						233	
	1		11:00-12:50	Tu	F	HEc 310		Berry
			11:00-11:50		Th	HEc 310		
371-6	Field Experience						Consent of instructor	
	1		To be arranged					Padgett Ridley
380-4	Furniture and Interiors							
	1		1:00-1:50	TuWThF		HEc 303		Stewart
381-4	Modern Movement in Interior Design							
	1		8:00-8:50	MTu	ThF	HEc 303		Stewart
382-4	The Decorative Arts							
	1		11:00-11:50	TuWThF		HEc 303		Phillips
			12:00-12:50	TuWThF		HEc 303		Slack
390-5	Interior Design Fundamentals						131, 231, or	
	1		2:00-2:50		W F	HEc 303	consent of instructor	Phillips
			2:00-3:50	Tu		HEc 302		
			3:00-3:50	M		HEc 302		
	2		2:00-2:50		W F	HEc 303		Stewart
			3:00-3:50		F	HEc 302		Stewart
			2:00-3:50		Th	HEc 302		
391a-5	Advanced Interior Design						390 or consent of instructor	
	1		3:00-4:50		W F	HEc 303		
			3:00-4:50	M		HEc 302		
	2		3:00-4:50		W F	HEc 303		Stewart
			3:00-4:50	Tu		HEc 302		
391b-5	Advanced Interior Design						390 or consent of instructor	
	1		9:00-10:50	Tu	ThF	HEc 302		Stewart
391c-5	Advanced Interior Design						390 or consent of instructor	
	1		9:00-10:50	M	W F	HEc 302		Stewart
394-4	Professional Practice						390 or consent of instructor	
	1		11:00-11:50	MTu	ThF	HEc 303		Stewart
395-2 to 4	Special Problems							
	1		To be arranged					
433-4	Advanced Pattern Designing						233 or consent of instructor	
	1		10:00-10:50	M	Th	HEc 310		Berry
			10:00-11:50		W	HEc 310		
481-2 to 6	Readings						Consent of instructor and chairman	
	1		To be arranged					Berry Padgett Phillips
570-4	Clothing and Textiles Seminar							
	1		To be arranged					Padgett
572-2 to 8	Special Problems							
	1		To be arranged					Berry Padgett Phillips
582-4	Foundation of Fashion							
	1		6:30-9:00 pm		W	HEc 310		Berry
599-5 to 9	Thesis						Consent of department chairman	
	1		To be arranged					Berry Padgett Phillips

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		

**Home Economics Honors Courses (HEc)**

387-2 to 4	Special Problems—Honors	Consent of department
1	1 1	To be arranged
388-2 to 4	Research and Investigation—Honors	
1	1 1	To be arranged

**DESIGN (DES)**

100-5	Design Fundamentals						
1	1	1	1:00-3:50	M	Th	T125	
			2:00-3:50		W	T125	
2	2	2	1:00-3:50	Tu	F	T125	
			2:00-3:50		W	T125	
3	3		9:00-11:50	M	Th	T125	
			2:00-3:50		W	T125	
200-2	Materials and Basic Techniques						15 hrs of 100 or consent of department
1	1	1	6:00-9:00 pm	M		T125	Pratt
T2	T2	T2	6:00-9:00 pm	Tu		T128	
215-4	Basic Product-Shelter Design						15 hrs of 100 or consent of department
1	1	1	1:00-3:50	M	Th	T125	Pratt
			1:00-2:50		W	T125	Pratt
T2	T2	T2	1:00-3:50	M	Th	T128	
			1:00-2:50		W	T128	
275-4	Basic Visual Design						15 hrs of 100 or consent of department
1	1	1	1:00-3:50	Tu	F	T125	Kula
			3:00-4:50		W	T125	Kula
2	2	2	1:00-3:50	Tu	F	T128	
			3:00-4:50		W	T128	
300-2	Materials and Basic Techniques						6 hrs of 200
1	1	1	6:00-9:00 pm	Tu		T126	Kula
345-4	Design Studio						Consent of department
1	1	1	9:00-11:50 pm	Tu	F	T128	
366-5	Product-Shelter Design						12 hrs of 215 or consent of department
1	1	1	1:00-4:50	MTu		T126	
			1:00-2:50		W	T126	
2	2	2	1:00-4:50	MTu		T126	
			1:00-2:50		W	T126	
375-5	Visual Design						12 hrs of 275 or consent of department
1	1	1	1:00-4:50		ThF	T126	
			3:00-4:50		W	T126	
2	2	2	1:00-4:50		ThF	T126	
			3:00-4:50		W	T126	
390-2	Principles of Design						
1	T1	T1	7:00-9:00 pm		W	T126	Perk
400-2	Materials and Basic Techniques						6 hrs of 300 or consent of department
1	1	1	6:00-9:00 pm		Th	T128	Roan
2	2	2	6:00-9:00 pm		F	T128	
465f-5	Research in Product-Shelter						15 hrs of 366 or consent of department
1	1	1	1:00-4:50	MTu		T128	
			1:00-2:50		W	T128	
2	2	2	1:00-4:50	MTu		T128	
			1:00-2:50		W	T128	
465g-5	Research in Visual Design						15 hrs of 375 or consent of department
1	1	1	1:00-4:50		ThF	T128	Roan
			3:00-4:50		W	T128	Roan
2	2	2	1:00-4:50		ThF	T128	
			3:00-4:50		W	T128	
490f-4	Studio in Product-Shelter Design						Consent of department
1	1	1	9:00-11:50	M	Th	T128	
490g-4	Studio in Visual Design						Consent of department
1	1	1	9:00-11:50	M	Th	T128	
520-4	Educational Tool Systems						Consent of department
1	1	1	To be arranged				
T525-4 to 8	Behavioral Technology						Consent of department
	T1		To be arranged				
T526-4	Design Education—Principles and Practice						Consent of department
1	1	1	To be arranged				

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time	
530-4	Studies in the Industrial Process	Consent of department		
1	1	1	To be arranged	
535-4	Research in Product Design	Consent of department		
1	1	1	To be arranged	
540-4	Studies in Communications Design	Consent of department		
1	1		To be arranged	
545-4	Research in Communications Design	Consent of department		
1	1		To be arranged	
550-4 to 10	Field Study in Design	Consent of department		
1	1	1	To be arranged	
560-4	Environmental Control	Consent of department		
1	1	1	To be arranged	
T565-4	Urban and Regional Planning	Consent of department		
1	1	1	To be arranged	
T566-4	Special Projects in Architecture and Planning	Consent of department		
1	1	1	To be arranged	
599-3 to 9	Thesis	Consent of department		
1	1	1	To be arranged	

## ECONOMICS (ECON)

214-3	Economics (Macro)	GSB 211a							
1			9:00-9:50	Tu	Th	L 121			
			9:00-9:50		F	L 20			
	1	1	9:00-9:50	Tu	Th	L 121			
			9:00-9:50	M		L 221			
T2	T2	T2	11:00-11:50	M	W	F	L 121		
3	3	3	2:00-2:50	MTu	Th	L 121			
4	4	4	4:00-4:50	Tu	ThF	L 121			
215-3	Economics (Micro)	GSB 211a							
1	1	1	8:00-8:50	M	W	F	L 121		
2	2	2	9:00-9:50	M	W	F	Ag 154		
T3	T3	T3	4:00-4:50	M	W	F	Ag 154		
4	4	4	7:35-9:00 pm	M	W	L 121			
301-1 to 6	Economic Readings	Consent of chairman							
1	1	1	To be arranged					Layer	
308-4	Economic and Business Statistics, I	GSD 110							
1			2:00-2:50	MTuWThF	Cl 25			Stalon	
310-4	Labor Problems	214 and 215							
1	1	1	8:00-8:50	TuWThF	HEc 203			Kreider	
2			3:00-3:50	TuWThF	M 102			Edelman	
315-4	Money and Banking, I	214							
1	1	1	9:00-9:50	MTu	ThF	M 201		Brucker	
2	2	2	2:00-2:50	MTuWTh	M 201			Hollenhorst	
330-4	Public Finance, I	214 or GSB 211c							
1			4:00-4:50	MTuWTh	M 201			Fryman	
	1		12:00-12:50	MTuW	F	M 201		Russell	
408-4	Economic and Business Statistics, II	GSD 110							
1			8:00-8:50	MTuWThF	Wham 312				
411-4	Collective Bargaining and Dispute Settlement	310							
1			1:00-1:50	MTuWTh	Cl 25			Edelman	
416-4	Money and Banking, II	315							
1			11:00-11:50	MTu	F	Ag 174		Brucker	
			11:00-11:50		Th	Wham 326			
418-4	Economic History of Europe	GSB 211a							
1			8:00-8:50	M	WThF	Cl 326		Russell	
419-4	Latin American Economic Development	GSB 211a							
	1		4:00-4:50	MTuWTh	Cl 326			Wiegand	
420-4	Recent Economic History of United States	214 and 215							
	1		2:00-2:50	MTu	ThF	M 302		Ellis	
422-4	Introduction to Economic Development	214 and 215							
1			8:00-8:50	MTu	ThF	Cl 25		Ellis	
429-4	International Economics	214 and 215							
1	1		12:00-12:50	MTu	ThF	Cl 326		Wells	
		1	2:00-2:50	MTu	ThF	Cl 25		Allen	
430-4	Regional Economy	214 and 215							
1			8:00-8:50	TuWThF	Wham 210			Ellis	
431-3	Public Finance, II	330 or consent of instructor							
1			6:00-7:25 pm	W	Cl 326			Fryman	
			6:00-7:25 pm	M	Ag 174				
433-4 <sup>1</sup>	Inflation, Growth and Stability	214 or consent of instructor							
			1 3:00-3:50	TuWThF	Cl 25			Stalon	
436-3 <sup>2</sup>	Government and Labor	215 or GSB 211c							
	1		1:00-1:50	M	W	F	Wham 328	Kreider	



Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
440-4	Intermed, Micro Theory				215
1		1	11:00-11:50	MTu ThF M 201	Brucker
	1		9:00-9:50	TuWThF M 210	Fryman
2	2		3:00-3:50	MTu ThF M 201	Allen
		2	4:00-4:50	MTu ThF Wham 203	Allen
441-4 <sup>1</sup>	Intermed Macro Theory				214
1	1	1	9:00-9:50	MTu ThF M 302	Petro
2	2	2	4:00-4:50	TuWThF Wham 205	Stalon
450a-3	History of Economic Thought				214 and 215
1			2:00-2:50	MTu Th Wham 210	Wiegand
450b-3	History of Economic Thought				450a or consent of instructor
1			4:00-4:50	MTu Th M 201	Wiegand
460-4	Russian Economy				GSB 211a
1			10:00-10:50	M F Cl 326	Wells
			10:00-10:50	Tu Th HEc 303	
461-4	Comparative Economic Development in Asia				GSB 211a
1			4:00-4:50	TuWThF Ag 148	Haitani
462-4	Economic Development of Middle East				214 and 215
1			9:00-9:50	TuWThF Cl 25	Badre
465-4	Mathematical Economics, I				440 or consent of instructor
1			12:00-12:50	TuWThF Cl 25	Martinsek
467-4	Econometrics, I				Consent of instructor
1			3:00-3:50	TuWThF Cl 25	Stalon
471-4 <sup>3</sup>	Land Resource Economics				440 or For 470a
1			3:00-4:50	M W Ag 116	Beazley
472-4	Dynamic Economics				441 or consent of instructor
1			9:00-9:50	TuWTh S M 301	
481-4	Comparative Economic Systems				214 and 215
1			5:45-7:25 pm	Tu Th Wham 112	Haitani
500-4 <sup>4</sup>	Economics Seminar				Consent of instructor
1			7:35-9:15 pm	M W Cl 25	
	1		7:35-9:15 pm	M Ag 174	
			7:35-9:15 pm	W Cl 25	
		1	8:00-8:50	TuWThF Tech B20	Wiegand
501-1 to 5	Economic Readings				Consent of chairman
1	1	1	To be arranged		Layor
502-1 to 6 <sup>5</sup>	Readings in Resource Economics				Consent of department of Forestry
1	1	1	To be arranged		Beazley
512-4	Labor Economics				310 or consent of instructor
		1	10:00-11:50	M Ag 218	Edelman
			10:00-11:50	Th M 308	
517-4	Monetary Theory and Policy				315 and 441 or consent of instructor
		1	1:00-1:50	MTuWTh Cl 25	Hollenhorst
520a-4	Economic Development Theory and Practice				440 and 441
1			9:00-9:50	MTuW F Cl 25	Badre
520b-4	Economic Development Theory and Practice				520a
		1	12:00-12:50	M WThF Cl 25	Badre
526-4 <sup>6</sup>	Managerial Economics				214 and 215 or 351 or consent of instructor
1			3:00-3:50	MTu ThF Cl 326	Allen
530-4	Foreign Trade and Finance				429 or consent of instructor
1			3:00-3:50	MTuWTh Cl 25	Wells
531-4	Seminar in International Economics				530 or consent of instructor
		1	9:00-9:50	MTuWTh Cl 326	Wells
533-4	Public Finance Theory and Practice				330 or consent of instructor
		1	8:00-8:50	MTuW F Ag 148	Russell
541-4	National Income Theory				441 or consent of instructor
1			10:00-10:50	MTu F Ag 174	Petro
			10:00-10:50	Tu Wham 326	
542-4	Price Theory				440 or consent of instructor
1			2:00-2:50	Tu ThF Cl 326	Allen
			2:00-2:50	M Wham 326	
543-4	Seminar in Economic Policy				440 and 441 or consent of instructor
		1	5:45-7:25 pm	Tu Th Cl 25	Badre
552-4	Seminar in Economic Thought				450a,b or consent of instructor
		1	7:35-9:15 pm	Tu Th Cl 25	Hickman
562-4	Seminar in Economic Systems				481 or consent of instructor
		1	2:00-2:50	MTu ThF Ag 148	Haitani

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time	Instructor
566-4	Mathematical Economics II	440 or 465 or consent of instructor		
	1	4:00-4:50	MTuW F Cl 25	Martinsek
575-4	Economic Regulation	440 or consent of instructor		
1		12:00-12:50	TuWThF Cl 25	Martinsek
581-4	Economics of Welfare	440 or consent of instructor		
1		7:35-9:15 pm	Tu Th Cl 25	Hickman
583-4	Methodological Foundations of Economics	440 and 441 or consent of instructor		
	1	7:35-9:15 pm	Tu Th Cl 25	Hickman
599-2 to 9	Thesis	Consent of chairman		
1	1	To be arranged		Layer
600-3 to 16	Doctoral Dissertation	Consent of chairman		
1	1	To be arranged		Layer

<sup>1</sup> A student may not receive credit for both 433 and 441

<sup>2</sup> Cross-listed with Government 436

<sup>3</sup> Cross-listed with Forestry 471 and Agricultural Industries 471

<sup>4</sup> May be taken twice for a total of eight hours credit

<sup>5</sup> Cross-listed with Forestry 520b and Agricultural Industries 520b

<sup>6</sup> Cross-listed with Business Administration 526

## EDUCATIONAL ADMINISTRATION AND SUPERVISION (EDAD)

355-4	Philosophy of Education				
1	1	1	8:00-8:50	MTuWTh	Wham 328
2	2	2	9:00-9:50	MTuWTh	Wham 328
3	3	3	10:00-10:50	MTuWTh	Wham 328
4	4	4	11:00-11:50	MTuWTh	Wham 328
5	5	5	5:45-7:25 pm	M W	Wham 328
420-4	Legal Basis of American Education	424			
1		6:30-9:00 pm	Tu	Wham 328	Sasse
424-4	School Administration	Consent of instructor			
1		6:30-9:00 pm	W	Wham 203	
		Plus 4 extra sessions			
431-4	History of Education in the United States				
1		6:30-9:00 pm	Tu	Wham 203	
	1	6:30-9:00 pm	W	Wham 206	
		Plus 4 extra sessions			
432-4	Education and Social Forces				
	1	6:30-9:00 pm	Tu	Wham 203	
		Plus 4 extra sessions			
456-4	School Supervision	Consent of instructor			
	1	6:30-9:00 pm	M	Wham 319	
		Plus 4 extra sessions			
460-4	Curriculum	Consent of instructor			
1		6:30-9:00 pm	M	Wham 312	
		Plus 4 extra sessions			
500-4	Research Methods	Guid 422a or b or consent of instructor			
1		6:30-9:00 pm	Th	Wham 301b	
	1	1	6:30-9:00 pm	M	Wham 206
501a-4	Seminar in Educational Administration	424			
1		6:30-9:00 pm	M	Wham 228	Ewing
501b-4	Seminar in Educational Administration	501a			
1		6:30-9:00 pm	M	Wham 319	Ewing
501c-4	Seminar in Educational Administration	501b			
	1	6:30-9:00 pm	M	Wham 203	Ewing
502-4	Seminar in Comparative Education				
1		9:00-11:50	F	Wham 328	
502s-4	Seminar in Comparative Education: Soviet Russia				
1		6:30-9:00 pm	W	Wham 312	Lean
503-4	Seminar in Philosophy of Education	Consent of instructor			
1		9:00-12:00	F	Wham 328	
504-4	Seminar in History of European Education				
	1	6:30-9:00 pm	M	Wham 203	McKenzie
	1	9:00-11:50	F	Wham 328	McKenzie
506-4	Curriculum in Relation to American Culture	460			
	1	6:30-9:00 pm	Tu	Wham 301b	Hall
507a-4	The Twentieth Century and Education				
1		6:30-9:00 pm	Th	Wham 328	Bracewell
507b-4	The Twentieth Century and Education				
1		6:30-9:00 pm	Th	Wham 203	Bracewell
507c-4	The Twentieth Century and Education				
	1	6:30-9:00 pm	Th	Wham 206	Bracewell
508a-4	Interdisciplinary Seminar in Educational Administration	Consent of instructor			
1		6:30-9:00 pm	W	Wham 228	

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
508b-4	Interdisciplinary Seminar in Educational Administration ..... Consent of instructor				
	1	6:30-9:00 pm	W	Wham 319	
511a-4	Internship Practicum ..... Consent of department chairman				
1	1	1	To be arranged		
511b-4	Internship Practicum ..... Consent of department chairman				
1	1	1	To be arranged		
511c-4	Internship Practicum ..... Consent of department chairman				
1	1	1	To be arranged		
520-4	Illinois School Law ..... 420				
	1	9:00-11:30	S	Wham 301b	Sasse
533-4	School Buildings ..... Consent of department				
1		6:30-9:00 pm	M	Wham 210	Sasse
534a-4	School Finance ..... Consent of department				
	1	6:30-9:00 pm	Tu	Wham 328	Kaiser
534b-4	School Business Management ..... Consent of instructor				
	1	6:30-9:00 pm	Th	Wham 206	Kaiser
544-4	Contrasting Philosophies of Education ..... Consent of instructor				
1		9:00-11:30	S	Wham 328	Lean
556-4	Seminar in Educational Supervision ..... 456				
	1	6:30-9:00 pm	Tu	Wham 203	Bracewell
T564-4 <sup>1</sup>	High School Principal ..... Consent of instructor				
1		6:30-9:00 pm	M	Wham 208	Stephens
575a-4	Individual Research—Curriculum ..... Consent of instructor				
1	1	1	To be arranged		
575b-4	Individual Research—Supervision ..... Consent of instructor				
1	1	1	To be arranged		
575c-4	Individual Research—Buildings ..... Consent of instructor				
1	1	1	To be arranged		
575d-4	Individual Research—Finance ..... Consent of instructor				
1	1	1	To be arranged		
575e-4	Individual Research—School Law ..... Consent of instructor				
1	1	1	To be arranged		
575f-4	Individual Research—Comparative Education ..... Consent of instructor				
	1	1	1	To be arranged	
575g-4	Individual Research—History of Education ..... Consent of instructor				
	1	1	1	To be arranged	
575h-4	Individual Research—Philosophy of Education ..... Consent of instructor				
	1	1	1	To be arranged	
575j-4	Individual Research—Administration ..... Consent of instructor				
	1	1	1	To be arranged	
575k-4	Individual Research—Elementary Education ..... Consent of instructor				
	1	1	1	To be arranged	
576a-4	Readings in Administration and Supervision ..... Advanced study				
	1	1	1	To be arranged	
576b-4	Readings in Administration and Supervision ..... Advanced study				
	1	1	1	To be arranged	
576c-4	Readings in Administration and Supervision ..... Advanced study				
	1	1	1	To be arranged	
589-4 <sup>2</sup>	General Graduate Seminar: Dewey's Philosophy of Education ..... HEc 208 McKenzie				
	1	4:00-6:30 pm	Tu		
589-4 <sup>2</sup>	General Graduate Seminar: William James ..... HEc 208 Eames				
	1	4:00-6:30 pm	Tu		
589-4 <sup>2</sup>	General Graduate Seminar: George Herbert Mead ..... HEc 208 Eames				
	1	4:00-6:30 pm	Tu		
591-2 <sup>3</sup>	Seminar in Social and Philosophical Foundations ..... Wham 301a McKenzie				
	1	1	1	10:00-11:50	
592-4	Doctoral Seminar in Cultural Foundations ..... 591				
	1	1	1	10:00-11:50	
596-5 to 9	Independent Investigation ..... Advanced standing				
	1	1	1	To be arranged	
597-3	Thesis ..... Advanced standing				
	1	1	1	To be arranged	
598-3	Thesis ..... Advanced standing				
	1	1	1	To be arranged	
599-3	Thesis ..... Advanced standing				
	1	1	1	To be arranged	
600-1 to 16	Dissertation ..... Advanced standing				
	1	1	1	To be arranged	



Course No.—Hours		Descriptive Title		Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time			

<sup>1</sup> Cross-listed with Secondary Education<sup>2</sup> Cross-listed with Philosophy<sup>3</sup> Must be taken concurrently with Guidance 590-2

## ELEMENTARY EDUCATION (ELED)

000-0	Reading and Studying Techniques .....					
1	1		11:00-11:50	MTuWTh	Wham 210	Ragsdale
100-3	Introduction to Elementary Education .....					
1	1		9:00-9:50	M W F	Wham 112	
			9:00-9:50	M W F	Wham 112	Bradfield
		1	9:00-9:50	M W F	Wham 208	Bradfield
	2		11:00-11:50	M W F	Wham 317	Bradfield
	2		11:00-11:50	M W F	Wham 206	Bradfield
		2	10:00-10:50	M W F	Wham 302	
	3	3	12:00-12:50	M W F	Wham 210	
101-2	Developing Reading and Learning Skills .....					
1	1	1	9:00-9:50	MTuW	Wham 144	Berger
2	2	2	10:00-10:50	M W F	Wham 144	
3	3	3	10:00-10:50	Tu Th	Wham 144	
			10:00-10:50		S Wham 210	
	4	4	11:00-11:50	Tu Th	Wham 144	
			11:00-11:50		S Wham 210	
	5	5	8:00-8:50	M W F	Wham 144	
	6	6	8:00-8:50	Tu Th	Wham 144	
			8:00-8:50		S Wham 210	
	7	7	1:00-1:50	M W F	Wham 144	
	8	8	2:00-2:50	M W F	Wham 144	
	9	9	3:00-3:50	M W F	Wham 144	
203-3 <sup>1</sup>	Understanding the Elementary School Child .....					GSB 201b
1	1	1	2:00-2:50	M W	Wham 210	Lee
2	2	2	3:00-3:50	M W	Wham 210	Lee
309-3	Kindergarten-Primary Social Studies Methods .....					
1	1		1:00-1:50	MTuWTh	Wham 206	
314-4	Elementary School Methods .....					Guid 305
1 <sup>2</sup>		1 <sup>2</sup>	2:00-2:50	M WThF	Wham 203	Newport
	1		2:00-2:50	MTuWTh	Wham 203	Brod
2	2	2	9:00-9:50	MTuWTh	Wham 203	Brod
3		3	11:00-11:50	MTuWTh	Wham 203	Malone
	3		1:00-1:50	MTuWTh	Wham 203	Bradfield
4	4	4	10:00-10:50	MTuWTh	Wham 206	Randolph
316-4	Kindergarten-Primary Methods and Curriculum .....					Guid 305
1	1		9:00-9:50	MTuWTh	Wham 206	
337-4	Reading in the Elementary School .....					314
1	1	1	9:00-9:50	MTuWTh	Wham 210	Ragsdale
2	2	2	10:00-10:50	MTuWTh	Wham 203	Brod
3	3	3	2:00-2:50	MTuWTh	Wham 206	Randolph
4		4	1:00-1:50	MTuWTh	Wham 210	Ragsdale
	4 <sup>4</sup>		10:00-10:50	MTuWTh	Wham 208	
350-4 to 16	Student Teaching .....					
1	1	1	To be arranged			
351-4 to 16	Student Teaching, General .....					
1	1	1	To be arranged			
2	2	2	To be arranged Art			
3	3	3	To be arranged Educable Mentally Handicapped			
4	4	4	To be arranged Music			
5	5	5	To be arranged Physical Education			
6	6	6	To be arranged Physically Handicapped			
7	7	7	To be arranged Speech Correction			
413-4	Children's Literature .....					Guid 305
1	1	1	10:00-10:50	MTuWTh	Wham 210	McLaren
	2 <sup>5</sup>		8:00-8:50	MTuWTh	Wham 308	McLaren
2		2	11:00-11:50	MTuWTh	Wham 206	McLaren
3	3	3	2:00-2:50	MTuWTh	Wham 208	McLaren
415-4	Improvement of Instruction in Arithmetic .....					Math 310,
			student teaching or experience			
1	1	1	8:00-8:50	MTuWTh	Wham 206	Paige
2			6:30-9:00 pm	Th	Wham 203	Paige
437-4	Problems in Reading .....					Student teaching
	1		6:30-9:00 pm	M	Wham 210	Ragsdale
	2		10:00-10:50	MTuWTh	Tech A220	Newport
442-4	Science for the Elementary Teacher .....					314
1		1	6:30-9:00 pm	Tu	Pull 304	Cummins
2 <sup>3</sup>		2 <sup>3</sup>	10:00-10:50	M WThF	Wham 208	Newport
3	3	3	1:00-1:50	MTuWTh	Wham 208	Newport
505-4	Improvement of Reading Instruction .....					
1			6:30-9:00 pm	M	Wham 203	Brod

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
507-2 to 4	Reading in Readings				
1	1	1	To be arranged		Hill
509-4 to 8	Practicum in Reading				
1	1	1	To be arranged		Hill
510-4	Seminar Problems in Reading				
	1	6:30-9:00 pm	W	Wham 144	Hill
514-4	Organization and Administration of Reading Programs				
	1	6:30-9:00 pm	Tu	Wham 144	Hill
515-4	Special Problems in the Teaching of Arithmetic in the Elementary Schools				415
	1	6:30-9:00 pm	W	Wham 203	Paige
521a-4	Diagnosis and Correction of Reading Disabilities				337 or 501
1		9:00-11:30	S	Wham 144	Fishco
521b-4	Diagnosis and Correction of Reading Disabilities				
	1	9:00-11:30	S	Wham 144	
521c-4	Diagnosis and Correction of Reading Disabilities				
	1	9:00-11:30	S	Wham 144	
537-4	Kindergarten-Primary Reading				
	1	6:30-9:00 pm	Tu	Wham 206	
541-4	Teaching and Curriculum in Elementary School Science				
	1	6:30-9:00 pm	M	Pull 304	Cummins
542-4	Language Arts in the Elementary School				
	1	6:30-9:00 pm	M	Wham 210	Ragsdale
543-4	Teaching the Social Studies in the Elementary School				
	1	6:30-9:00 pm	W	Wham 206	Randolph
557-4	The Elementary Principalship				
	1	6:30-9:00 pm	Th	Wham 301a	Bradfield
560-4	Kindergarten-Primary Education				
	1	6:30-9:00 pm	W	Wham 206	
561-4	Elementary School Curriculum				
	1	6:30-9:00 pm	Tu	Wham 210	Lee
570-4	Seminar—Research in Elementary Education				
	1	2:00-3:50	Tu Th	Wham 210	Lee and Paige
575a-4	Individual Research (Curriculum)				
	1	1	1	To be arranged	Lee
575b-4	Individual Research (Supervision)				
	1	1	1	To be arranged	Lee
575c-4	Individual Research (Language Arts)				
	1	1	1	To be arranged	Ragsdale
575d-4	Individual Research (Science)				
	1	1	1	To be arranged	Newport
575e-4	Individual Research (Reading)				
	1	1	1	To be arranged	Ragsdale
575f-4	Individual Research (Social Studies)				
	1	1	1	To be arranged	Randolph
575g-4	Individual Research (Problems in Elementary Education)				
	1	1	1	To be arranged	
575h-4	Individual Research (Arithmetic)				
	1	1	1	To be arranged	Paige
575j-4	Individual Research (Problems in Kindergarten-Primary)				
	1	1	1	To be arranged	Baker
575k-4	Individual Research (Elementary Administration)				
	1	1	1	To be arranged	Bradfield
596-5 to 9	Independent Investigation				
	1	1	1	To be arranged	
599-3 to 9	Thesis				
	1	1	1	To be arranged	
600-2 to 16	Dissertation				
	1	1	1	To be arranged	

<sup>1</sup> Plus 2 hours in succession from 9:30 to 3:00 on one day, Monday-Friday for School Participation.

<sup>2</sup> Part of a block program—must be scheduled in connection with Elementary Education 442, section 2, Art Education 300 and Recreation and Outdoor Education 301.

<sup>3</sup> Part of a block program—must be scheduled in connection with Elementary Education 314, section 1, Art Education 300 and Recreation and Outdoor Education 301.

<sup>4</sup> Part of a block program—must be scheduled in connection with 413, section 2, Art Education 300, section 3, and Physical Education 319, section 1.

<sup>5</sup> Part of a block program—must be scheduled in connection with 337, section 4, Art Education 300, section 3, and Physical Education 319, section 1.

Course No.—Hours	Descriptive Title	Prerequisite
Fall Winter Spring	Time	Instructor
	Days	Place

## ENGINEERING (ENGR)

222-3	Digital Computer Programming for Engineers	Math 111b
1	1 1 9:00-9:50	Tu Th LS G16
	12:00-12:50	M W Wham B24
2	2 2 9:00-9:50	Tu Th LS G16
	12:00-12:50	Tu Th Wham B24
3	3 3 9:00-9:50	Tu Th LS G16
	4:00-4:50	M W Wham B24
4	4 4 9:00-9:50	Tu Th LS G16
	4:00-4:50	Tu Th Wham B24
5	5 5 9:00-9:50	Tu Th LS G16
	5:00-5:50	M W Wham B24
6	6 6 9:00-9:50	Tu Th LS G16
	5:00-5:50	Tu Th Wham B24
260a-3	Analytical Mechanics	Math 150b or concurrent enrollment
1	9:00-9:50	Tu Th S Tech A310
2	1:00-1:50	M W F Tech D131
3	6:00-7:25 pm	M W Tech D131
1	6:00-7:25 pm	M W Tech A120
260b-3	Analytical Mechanics	260a
1	10:00-10:50	M W F Tech A208
2	2:00-2:50	M W F Tech D131
3	3:00-3:50	M W F Tech A208
3	6:00-7:25 pm	Tu Th Tech D131
260c-3	Analytical Mechanics	260b
1	9:00-9:50	M W F Tech A208
2	6:00-7:25 pm	M W Tech D131
300a-3	Thermodynamics	Math 252a
1	8:00-8:50	M W F Tech A320
1	8:00-8:50	M W F Tech D131
2	10:00-10:50	M W F Tech D131
3	1:00-1:50	M W F Tech A322
4	6:00-7:25 pm	Tu Th Tech D131
300b-3	Thermodynamics	300a
1	9:00-9:50	M W F Tech A208
2	11:00-11:50	M W F Tech A320
1	11:00-11:50	M W F Tech A210
3	2:00-2:50	M W F Tech A320
4	7:35-9:00 pm	Tu Th Tech A308
302a-3	Heat and Mass Transfer	300b
1	1:00-1:50	M W F Tech A210
305a-3	Architectural Engineering Design	260c
1	7:35-9:00 pm	M W Tech A307
305b-3	Architectural Engineering	305a
1	7:35-9:00 pm	M W Tech A319
311a-3	Engineering Materials	260c
1	1:00-1:50	Tu Th Tech A120
	6:00-8:50 pm	Tu Tech D14
2	1:00-1:50	Tu Th Tech A120
	6:00-8:50 pm	Th Tech D14
311b-3	Engineering Materials	311a
1	9:00-9:50	Tu Th Tech A310
	9:00-11:50	S Tech D14
1	2:00-2:50	Tu Th Tech A208
	6:00-8:50 pm	M Tech D14
2	2:00-2:50	Tu Th Tech A208
	6:00-8:50 pm	Tu Tech D14
311c-3 <sup>1</sup>	Engineering Materials	311b
1	9:00-9:50	Tu Th Tech D131
	1:00-3:50	Tu Tech D14
2	9:00-9:50	Tu Th Tech D131
	6:00-8:50 pm	W Tech D14
3	2:00-2:50	Tu Th Tech D131
	6:00-8:50 pm	Tu Tech D14
313a-3	Fluid Mechanics	260c
1	1 1 9:00-9:50	M W F Tech A14a
2	2:00-2:50	M W F Tech D14a
3	3:00-3:50	M W F Tech D14a
313b-3	Fluid Mechanics	313a
1	1 8:00-8:50	Tu Th S Tech D14a
2	1:00-1:50	M W F Tech D14a
321a-3	Physical Metallurgy	311a
1	8:00-8:50	M W F Tech B122



## 112 ENGINEERING (ENGR)

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time	
331a-4	Circuit and Field Theory			Math 252b
1	9:00-9:50	M W F	Tech D131	
	6:00-8:50 pm	M	Tech D104	
2	9:00-9:50	M W F	Tech D131	
	6:00-8:50 pm	W	Tech D104	
3	11:00-11:50	M W F	Tech A320	
	6:00-8:50 pm	Tu	Tech D104	
4	11:00-11:50	M W F	Tech A320	
	6:00-8:50 pm	Th	Tech D104	
331b-4	Circuit and Field Theory			331a
1	9:00-9:50	M W F	Tech A320	
	1:00-3:50	Tu	Tech D104	
2	9:00-9:50	M W F	Tech A320	
	6:00-8:50 pm	Th	Tech D104	
3	1:00-1:50	M W F	Tech A310	
	6:00-8:50 pm	M	Tech D104	
4	1:00-1:50	M W F	Tech A310	
	6:00-8:50 pm	W	Tech D104	
350a-3	Analog and Digital Computer Design			470a or Math 205a
1	To be arranged		Tech D116	
GSB 361-3	Engineering Economics (See General Studies Area B for schedule)			
401a-3	Principles of Propulsion			300c
1	7:35-9:00 pm	Tu Th	Tech A310	
401b-3	Principles of Propulsion			401b
1	7:35-9:00 pm	Tu Th	Tech A310	
406-3	Introductory Wave Motion			Math 252b
1	To be arranged		Tech D12	
412a-3	Engineering Practice			
1	8:00-8:50	M W F	Comm 114	
	8:00-8:50	M W F	Comm 122	
2	12:00-12:50	M W F	Tech A220	
	12:00-12:50	M W F	Tech A210	
	12:00-12:50	M W F	Tech D131	
412b-3	Engineering Practice			
1	1:00-1:50	M W F	Tech A208	
	7:35-9:00 pm	Tu Th	Tech A310	
413a-3	Intermediate Mechanics of Fluids			313b, 470a, or Math 305a
1	10:00-10:50	M W F	Tech D14a	
413b-3	Intermediate Mechanics of Fluids			413a
1	2:00-2:50	M W F	Tech D14a	
415a-3	Principles of Water Quality Control			Chem 111 or consent of instructor
1	10:00-10:50	Tu Th	Tech B137	
	1:00-3:50	Tu	Tech B137	
415b-3	Principles of Water Quality Control			415a
1	10:00-10:50	Tu Th	Tech B137	
	1:00-3:50	Tu	Tech B137	
416a-3	Water Quality Control			Chem 111c
1	6:00-9:00 pm	Tu Th	Tech B137	
416b-3	Water Quality Control			416a
1	6:00-9:00 pm	Tu Th	Tech B137	
420a-3	Transport Phenomena			Math 252b
1	10:00-10:50	M W F	Tech D14c	
420b-3	Transport Phenomena			420a
1	To be arranged		Tech D14c	
420c-3	Transport Phenomena			420b
1	To be arranged		Tech D14c	
422-4	Operations Research and Mathematical Model Formulation			Math 111b
1	1:00-1:50	M WThF	Tech D116	
423-3	Hybrid Computation			Engr 222, 470a
1	9:00-9:50	M W F	Tech D116	
430-2 to 8	Special Problems in Industry and Technology			Consent of coordinator
1	1	1	To be arranged	
435a-3	Electronics			331b
1	1	To be arranged	Tech D106	
443a-3	Engineering Design			300b, 311b, 331b
1	11:00-11:50	M W F	Tech A319	
443b-3	Engineering Design			443a
1	8:00-8:50	M W F	Tech A319	
443c-3	Engineering Design			443b
1	10:00-10:50	M W F	Tech A319	

Course No.—	Hours	Descriptive Title	Time			Days	Place	Prerequisite
Fall	Winter	Spring						Instructor
450-4 <sup>2</sup>		Fundamentals of Reactive Systems					Chem 111c and Math 252b	
1		9:00-9:50	M	W	F	Tech D12		
		1:00-2:50	Tu			Tech D12		
459-4		Advanced Engineering Economy					GSB 361	
1		9:00-9:50	MTuW			P 308		
		9:00-9:50		Th		P 309		
T470a-3 <sup>2</sup>		Engineering Analysis					Math 252b	
1	1	12:00-12:50	M	W	F	Tech A208		
T470b-3 <sup>2</sup>		Engineering Analysis					470a	
	1	3:00-3:50	M	W	F	Tech A208		
	1	3:00-3:50	M	W	F	Tech A210		
502a-3		Advanced Heat Transfer					Consent of instructor	
1		To be arranged						
510a-3		Electromagnetic Fields					Consent of instructor	
1		To be arranged					Tech D102	
511a-3		Quantum Electronics					Consent of instructor	
	1	To be arranged					Tech D108	
512a-4		Continuum Mechanics					Math 305b	
1		To be arranged					Tech D12	
512b-4		Continuum Mechanics					Math 305b	
1		To be arranged					Tech D12	
513a-3		Fluid Mechanics					413a	
1		To be arranged						
513b-3		Fluid Mechanics					413b or consent of instructor	
1		To be arranged						
513c-3		Fluid Mechanics					413b or consent of instructor	
	1	To be arranged						
516a-4		Water Resources Development						
	1	To be arranged						
517a-4		Analysis and Design of Engineering Systems					300, 311, Math 305b	
1		3:00-3:50	M	W	F	Tech A319		
517b-4		Analysis and Design of Engineering Systems					300, 311, Math 305b	
	1	3:00-3:50	M	W	F	Tech A319		
517c-4		Analysis and Design of Engineering Systems					300, 311, Math 305b	
	1	3:00-3:50	M	W	F	Tech A319		
520a-3		Reaction Engineering and Rate Processes					420	
1		To be arranged					Tech D12	
522-3		Advanced Topics in Operations Research					422	
	1	To be arranged					Tech D12	
530a-3		Separation Processes and Equilibrium Operations					Consent of instructor	
	1	To be arranged					Tech D12	
561a-3		Advanced Vibrations					461, Math 305a,b	
	1	To be arranged					Tech D12a	
570-2 to 6		Special Investigations					Consent of coordinator	
1	1	To be arranged						
580-1 to 3		Seminar					Consent of coordinator	
1	1	To be arranged						
599-1 to 9		Thesis					Consent of coordinator	
1	1	To be arranged						

<sup>1</sup> Cross-listed with Engineering Technology.<sup>2</sup> Cross-listed with Applied Science.

## ENGINEERING TECHNOLOGY (ET)

260a-3	Analytical Mechanics				Math 150b or concurrent enrollment
1		8:00-8:50	M W F	Tech A208	
2		10:00-10:50	M W F	Tech A208	
	1	1:00-1:50	M W F	Tech D131	
	3	3:00-3:50	M W F	Tech A208	
260b-3	Analytical Mechanics				260a
	1	1	8:00-8:50	M W F	Tech A208
	1	2	2:00-2:50	M W F	Tech D131
260c-3	Analytical Mechanics				260b
	1	1	1	10:00-10:50	Tu Th S Tech D131
		2	3:00-3:50	M W F	Tech D131
301a-3	Refrigeration and Air Conditioning				Engr 300a
1		10:00-10:50	M W F	Tech D116	
301b-3	Refrigeration and Air Conditioning				301a
	1	10:00-10:50	M W F	Tech D116	
303a-3	Electronics Technology				304c
	1	9:00-9:50	M W	Tech D106	
		6:00-9:00 pm	M	Tech D106	

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
303b-3	Electronics Technology				303a
1	11:00-11:50	Tu Th	Tech D106		
	6:00-9:00 pm	M	Tech D106		
303c-3	Electronics Technology				303b
1	8:00-8:50	Tu Th	Tech D106		
	9:00-11:50	S	Tech D106		
304a-3	Electrical Circuits			ApS 307 or equivalent	
1	8:00-9:50	Tu Th S	Tech D104		
304b-3	Electrical Circuits				304a
1	8:00-9:50	M W F	Tech D104		
2	8:00-9:50	Tu Th S	Tech D104		
3	3:00-4:50	M W F	Tech D104		
304c-3	Electrical Circuits				304b
1	8:00-9:50	M W F	Tech D104		
2	8:00-9:50	Tu Th S	Tech D104		
3	3:00-4:50	M W F	Tech D104		
308a-3	Machine Design				260c
1	9:00-9:50	M W F	Tech A307		
308b-3	Machine Design				308a
1	12:00-12:50	M W F	Tech A319		
308c-3	Machine Design				308b
1	8:00-8:50	M W F	Tech A307		
310a-3	Construction Mechanics				260c
1	12:00-12:50	M W F	Tech D130		
310b-3	Construction Mechanics				310a
1	10:00-10:50	M W F	Tech D130		
310c-3	Construction Mechanics				310b
1	10:00-10:50	M W F	Tech D130		
311a-3	Engineering Materials				260c
1	9:00-9:50	Tu Th	Tech A122		
	2:00-4:50	Tu	Tech D14		
2	9:00-9:50	Tu Th	Tech A122		
	10:00-12:50	Th	Tech D14		
311b-3	Engineering Materials				311a
1	8:00-8:50	M W	Ag 216		
	9:00-11:50	S	Tech D14		
1	8:00-8:50	M W	Ag 146		
	9:00-11:50	S	Tech D14		
2	8:00-8:50	M W	Ag 216		
	6:00-8:50 pm	W	Tech D14		
311c-3 <sup>1</sup>	Engineering Materials				311b
1	9:00-9:50	Tu Th	Tech D131		
	1:00-3:50	Tu	Tech D14		
2	9:00-9:50	Tu Th	Tech D131		
	6:00-8:50 pm	W	Tech D14		
3	1:00-1:50	M W	Tech D131		
	6:00-8:50 pm	Tu	Tech D14		
314a-3	Soil Mechanics				311b
1	9:00-9:50	Tu Th	Tech D130		
	9:00-11:50	S	Tech D128		
314b-3	Soil Mechanics				314a
1	9:00-9:50	M W	Tech D130		
	6:00-9:00 pm	Tu	Tech D128		
318a-3	Hydraulics				260c
1	1	1	8:00-8:50	M W F	Tech D14a
2			1:00-1:50	M W F	Tech D14a
318b-3	Hydraulics				318a
1	1	10:00-10:50	M W	Tech D14a	
		10:00-12:50	F	Tech D14a	
2		2:00-2:50	Tu Th	Tech D14a	
		6:00-9:00 pm	Th	Tech D14a	
318c-3	Hydraulics				318b
1	9:00-9:50	Tu Th S	Tech D14a		
320a-3	Mechanical Engineering Laboratory			Engr 300a	
1	12:00-2:50	Tu Th	Tech D112		
320b-3	Mechanical Engineering Laboratory				320a
1	1:00-3:50	M W	Tech D112		
332a-3	Electrical Machinery				304c
1	11:00-11:50	Tu Th	Tech D122		
	6:00-9:00 pm	Th	Tech D122		
332b-3	Electrical Machinery				332a
1	9:00-9:50	Tu Th	Tech D122		
	6:00-9:00 pm	Th	Tech D122		
336a-3	Electrical Measurements				304c
1	10:00-10:50	Tu Th	Tech A208		
	9:00-11:50	S	Tech D106		



Course No.—	Hours	Descriptive Title	Days			Place	Prerequisite
Fall	Winter	Spring	Time				Instructor
337a-3 <sup>2</sup>	Manufacturing Processes						
	1	10:00-10:50	M	W	F	Tech D131	
		11:00-11:50	Tu			Tech D14b	
	2	10:00-10:50	M	W	F	Tech D131	
		11:00-11:50	Th			Tech D14b	
	3	10:00-10:50	M	W	F	Tech D131	
		4:00-4:50	Th			Tech D14b	
337b-3 <sup>2</sup>	Manufacturing Processes						
	1	10:00-10:50	M	W	F	Tech D131	
		11:00-11:50	Tu			Tech D14b	
	2	10:00-10:50	M	W	F	Tech D131	
		11:00-11:50	Th			Tech D14b	
	3	10:00-10:50	M	W	F	Tech D131	
		4:00-4:50	Th			Tech D14b	
337c-3 <sup>2</sup>	Manufacturing Processes						GSA 101c
1		3:00-3:50	M	W	F	Tech D131	
338a-4	Electrical Instrumentation						304c, 318b
	1	10:00-10:50	Tu		Th	Tech A222	
		6:00-9:00 pm	W			Tech D106	
338b-4	Electrical Instrumentation						338a
	1	10:00-10:50	Tu		Th	Tech A308	
		6:00-9:00 pm	Tu			Tech D106	
342a-3	Engineering Technology Design						Engr 300a, 311b
	1	To be arranged					
349a-3	Unit Operations						337c
	1	8:00-8:50	M	W	F	Tech D14c	
349b-3	Unit Operations						349a
	1	8:00-8:50	M	W	F	Tech D14c	
351a-3 <sup>2</sup>	Product Control						Tech 101b
1		12:00-12:50	M	W	F	Tech A307	
351b-3 <sup>2</sup>	Product Control						Tech 101b
	1	12:00-12:50	M	W	F	Tech A307	
351c-3 <sup>2</sup>	Product Control						Tech 101b
	1	12:00-12:50	M	W	F	Tech A307	
GSB 361-3	Engineering Economics (See General Studies Area B for schedule)						
363a-4	Surveying						Math 114b, Tech 101b
	1	1	12:00-12:50	Tu	Th	Tech D128	
			2:00-4:50	Tu	Th	Tech D128	
	2		12:00-12:50	Tu	Th	Tech D128	
			2:00-4:50	M	W	Tech D128	
363b-4	Surveying						363a
	1		12:00-12:50	Tu	Th	Tech D128	
			2:00-4:50	Tu	Th	Tech D128	
363c-4	Surveying						363b
	1		12:00-12:50	M	W	Tech D128	
			2:00-4:50	M	W	Tech D128	
364a-3	Highway Engineering						363a
1		1:00-1:50	M	W	F	Tech D128	
364b-3	Highway Engineering						363a
1		1:00-1:50	M	W	F	Tech D128	
400a-3	Plastics Technology						IT 300a
	1	2:00-2:50	M	W	F	To be arranged	
426a-3	Photogrammetry						363a
	1	To be arranged				Tech D128	
426b-3	Photogrammetry						426a
	1	To be arranged				Tech D128	
430-2 to 8	Special Problems in Industry and Technology						Consent of coordinator
	1	1	To be arranged				
437a-3	Industrial Electronics and Communications						303c
	1		1:00-1:50	Tu	Th	Tech D106	
			2:00-4:50	Tu		Tech D106	
437b-3	Industrial Electronics and Communications						437a
	1		12:00-12:50	M	W	Tech D106	
			6:00-9:00 pm	W		Tech D106	
437c-3	Industrial Electronics and Communications						437b
	1		9:00-9:50	Tu	Th	Tech D106	
			6:00-9:00 pm	Th		Tech D106	
T440-4	Design and Analysis of Organizations						
1	To be arranged						
465a-4 <sup>3</sup>	Industrial Safety						
	1		11:00-11:50	MTu	ThF	Tech A208	
465b-4 <sup>3</sup>	Industrial Safety						
	1		11:00-11:50	MTu	ThF	Tech A208	
506-2 to 8	Industrial Design Research						
1	1	1	To be arranged				

Course No.—Hours		Descriptive Title		Days	Place	Prerequisite
Fall	Winter	Spring	Time			Instructor

507-4	Industrial Quality Control .....					
1	To be arranged					
540a-4	Design of Man-Machine Systems and Analysis of Production ....					
1			2:00-2:50	MTuW	F	
570-2 to 6	Special Investigations .....					Consent of coordinator
1	1	1	To be arranged			
580-1 to 3	Seminar .....					Consent of coordinator
1	1	1	To be arranged			
599-1 to 9	Thesis .....					Consent of coordinator
1	1	1	To be arranged			

<sup>1</sup> Cross-listed with Engineering<sup>2</sup> Cross-listed with Industrial Technology<sup>3</sup> Cross-listed with Technological and Industrial Education

## E N G L I S H (ENG)

105a-3	English Composition for Foreign Students .....					
1			8:00-8:50	MTuWThF	Wham 301b	
	1		8:00-8:50	MTuWThF	Wham 321	
		1	8:00-8:50	MTuWThF	Wham 312	
2			10:00-10:50	MTuWThF	Wham 301b	
	2		11:00-11:50	MTuWThF	M 306a	
105b-3	English Composition for Foreign Students .....					
1			11:00-11:50	MTuWThF	Wham 312	
	1		8:00-8:50	MTuWThF	Wham 329	
		1	8:00-8:50	MTuWThF	Wham 329	
	2		10:00-10:50	MTuWThF	M 306a	
300a-3	Grammatical Analysis .....					
1	1	1	8:00-8:50	M	W F	M 203
2		2	10:00-10:50	M	W F	M 203
3			2:00-2:50	M	W F	M 203
4			6:00-7:15 pm	M	W	M 203
300b-3	Grammatical Analysis .....					
1			11:00-11:50	M	W F	M 203
	1		9:00-9:50	M	W F	M 203
		1	3:00-3:50	M	W F	M 203
	2		11:00-11:50	M	W F	M 203
		2	6:00-7:15 pm	M	W	M 203
	3		1:00-1:50	M	W F	M 203
	4		6:00-7:15 pm	M	W	M 203
302a-4	A Survey of English Literature to 1550 .....					
1			8:00-8:50	MTu	ThF	M 203b
	1		10:00-10:50	MTu	ThF	M 203b
		1	8:00-8:50	MTu	ThF	M 309
2			9:00-9:50	MTu	ThF	M 203b
3			10:00-10:50	MTu	ThF	M 203b
4			11:00-11:50	MTu	ThF	M 203b
5			12:00-12:50	MTu	ThF	M 203b
6			2:00-2:50	MTu	ThF	M 203b
7			5:45-7:25 pm	M	W	M 203b
8			7:35-9:15 pm	M	W	M 203b
302b-4	A Survey of English Literature, 1550-1750 .....					
1			1:00-1:50	MTu	ThF	M 203b
	1		8:00-8:50	MTu	ThF	M 203b
		1	9:00-9:50	MTu	ThF	M 309
	2		9:00-9:50	MTu	ThF	M 203b
	3		11:00-11:50	MTu	ThF	M 203b
	4		12:00-12:50	MTu	ThF	M 203b
	5		1:00-1:50	MTu	ThF	M 203b
	6		2:00-2:50	MTu	ThF	M 203b
	7		3:00-3:50	MTu	ThF	M 203b
	8		4:00-4:50	MTu	ThF	M 203b
	9		5:45-7:25 pm	M	W	M 203b
	10		7:35-9:15 pm	M	W	M 203b
302c-4	A Survey of English Literature After 1750 .....					
1			9:00-9:50	MTu	ThF	M 203
		1	10:00-10:50	MTu	ThF	M 309
	1		3:00-3:50	MTu	ThF	Wham 329
		2	11:00-11:50	MTu	ThF	M 309
	3		12:00-12:50	MTu	ThF	M 309
	4		1:00-1:50	MTu	ThF	M 309
	5		2:00-2:50	MTu	ThF	M 309
	6		3:00-3:50	MTu	ThF	M 309
	7		4:00-4:50	MTu	ThF	M 309
	8		7:35-9:15 pm	Tu	Th	M 203
309a-4	A Survey of American Literature 1600-1860 .....					
1			12:00-12:50	MTu	ThF	M 203

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
	1	10:00-10:50	MTu ThF	Wham 321	
	1	9:00-9:50	MTu ThF	M 203	
2		1:00-1:50	MTu ThF	M 203	
	2	12:00-12:50	MTu ThF	Wham 321	
	2	2:00-2:50	MTu ThF	M 203	
3		7:35-9:15 pm	Tu Th	M 203b	
309b-4	A Survey of American Literature, 1860-1914				
1		3:00-3:50	MTu ThF	M 203b	
	1	2:00-2:50	MTu ThF	M 203	
	1	11:00-11:50	MTu ThF	M 203	
	2	5:45-7:25 pm	M W	Wham 321	
	2	5:45-7:25 pm	Tu Th	M 203	
309c-4	A Survey of American Literature, 1914-Present				
1		4:00-4:50	MTu ThF	M 203b	
	1	4:00-4:50	MTu ThF	Wham 321	
	1	1:00-1:50	MTu ThF	M 203	
	2	7:35-9:15 pm	M W	Wham 321	
	2	7:35-9:15 pm	M W	M 203	
390-3	Advanced Composition				
1		3:00-3:50	M W F	M 203	
	1	9:00-9:50	M WTh	Wham 321	
	1	12:00-12:50	M W F	M 203	
2		4:00-4:50	M W F	M 203	
	2	11:00-11:50	M WTh	Wham 312	
	2	4:00-4:50	M W F	M 203	
3		6:00-7:15 pm	Tu Th	M 203	
	3	2:00-2:50	MTu Th	Wham 329	
	3	6:00-7:15 pm	M W	M 209	
4		7:35-8:50 pm	Tu Th	M 203	
	4	7:35-8:50 pm	Tu Th	Wham 312	
	4	7:35-8:50 pm	M W	M 209	
400-4	Structure of English				
1		11:00-11:50	MTu ThF	Wham 321	
402-4	Old English Literature in Translation				
	1	1:00-1:50	MTu ThF	Wham 312	Gardner
403-4	History of the English Language				
1		3:00-3:50	MTu ThF	Wham 312	Friend
404a-4	Middle English Literature				
1		1:00-1:50	MTu ThF	Wham 321	Gardner
404b-4	Middle English Literature				
1		9:00-9:50	MTu ThF	Wham 312	Hatton
404c-4	Middle English Literature				
1		2:00-2:50	MTu ThF	Wham 312	Gardner
405a-4	Descriptive Linguistics—Phonetics and Phonemics				
1		7:35-9:15 pm	Tu Th	HEc 122	
405b-4	Descriptive Linguistics—Morphology and Syntax				
					Consent of instructor
	1	2:00-2:50	MTu ThF	Wham 312	Parish
412a-4	English Non-Dramatic Literature: 16th Century				
1		9:00-9:50	MTu ThF	HEc 122	
412b-4	English Non-Dramatic Literature: 17th Century				
1		3:00-3:50	MTu ThF	Wham 321	
	1	8:00-8:50	MTu ThF	Wham 312	Griffin
412c-4	English Non-Dramatic Literature: Augustan Age				
1		10:00-10:50	MTu ThF	Wham 321	Vieth
412d-4	English Non-Dramatic Literature: Age of Johnson				
1		5:45-7:25 pm	Tu Th	HEc 122	Adams
420a-4	American Poetry to 1900				
1		2:00-2:50	MTu ThF	HEc 122	Stibitz
420b-4	American Poetry since 1900				
1		1:00-1:50	MTu ThF	HEc 122	Stibitz
421a-4	English Poetry: Early Romantics				
1		12:00-12:50	MTu ThF	Wham 321	Camp
421b-4	English Poetry: Later Romantics				
1		2:00-2:50	MTu ThF	HEc 122	Benziger
421c-4	English Poetry: Victorian Poets				
1		3:00-3:50	MTu ThF	Wham 329	Hillegas
421d-4	English Poetry: Modern				
1		11:00-11:50	MTu ThF	HEc 122	Epstein
431a-4	Major American Writers: 1620-1800				
1		5:45-7:25 pm	M W	HEc 122	Moss
431b-4	Major American Writers: 1800-1865				
1		12:00-12:50	MTu ThF	HEc 122	Moss
431c-4	Major American Writers: 1865-1915				
1		5:45-7:25 pm	M W	HEc 122	Webb
438-4	Intellectual Backgrounds of American Literature				
1		1:00-1:50	MTu ThF	HEc 122	Stibitz



Course No.—Hours		Descriptive Title		Days		Place		Prerequisite Instructor
Fall	Winter	Spring	Time					
447-4	<b>American Humor and Satire</b>							
1			9:00-9:50	MTu	ThF	Wham 329		Howell
454a-4	<b>English Fiction: 18th Century</b>							
1			9:00-9:50	MTu	ThF	Wham 321		Vieth
454b-4	<b>English Fiction: Victorian Novel</b>							
1			8:00-8:50	MTu	ThF	Wham 321		Partlow
		1	4:00-4:50	MTu	ThF	HEc 122		Partlow
454c-4	<b>English Fiction: 20th Century</b>							
1			9:00-9:50	MTu	ThF	Wham 329		Boyle
456-4	<b>Modern Continental Fiction</b>							
1			7:35-9:15 pm	M	W	HEc 122		Raizis
458a-4	<b>American Fiction</b>							
1			5:45-7:25 pm	M	W	HEc 122		Webb
458b-4	<b>American Fiction Since 1914</b>							
1			10:00-10:50	MTu	ThF	HEc 122		
		1	8:00-8:50	MTu	ThF	Wham 321		Howell
460a-4	<b>British Drama: Elizabethan</b>							
1			4:00-4:50	MTu	ThF	Wham 321		Harris
460b-4	<b>British Drama: Jacobean</b>							
1			3:00-3:50	MTu	ThF	HEc 122		Harris
460c-4	<b>British Drama: Restoration and 18th Century</b>							
1			11:00-11:50	MTu	ThF	HEc 122		Vieth
460d-4	<b>British Drama: Modern</b>							
1			9:00-9:50	MTu	ThF	HEc 122		Boyle
464-4	<b>Modern Continental Drama</b>							
1			1:00-1:50	MTu	ThF	Wham 321		Winn
468-4	<b>American Drama</b>							
1			10:00-10:50	MTu	ThF	HEc 122		Faner
		1	10:00-10:50	MTu	ThF	Wham 321		Hurley
471a-4	<b>Shakespeare</b>							
1			10:00-10:50	MTu	ThF	Wham 312		Griffin
		1	8:00-8:50	MTuWTh		HEc 122		Baldwin
471b-4	<b>Shakespeare</b>							
1			8:00-8:50	MTuWTh		HEc 122		Baldwin
		1	12:00-12:50	MTu	ThF	Wham 321		Griffin
473-4	<b>Milton</b>							
1			7:35-9:15 pm	Tu	Th	HEc 122		
485-4	<b>Problems in Teaching of English</b>							
1			11:00-11:50	MTu	ThF	HEc 122		
		1	11:00-11:50	MTu	ThF	Wham 321		
2			2:00-2:50	MTu	ThF	Wham 321		
		2	3:00-3:50	MTu	ThF	Wham 321		
		2	2:00-2:50	MTu	ThF	HEc 122		
492a-4	<b>Professional Writing II</b>							
1			3:00-4:50	Tu	Th	HEc 122		Hopkins
494-4	<b>Literature in Society</b>							
1			12:00-12:50	MTu	ThF	HEc 122		Duncan
495a-4	<b>Literary Criticism: History</b>							
1			10:00-10:50	MTu	ThF	HEc 122		Benziger
495b-4	<b>Literary Criticism: Modern</b>							
1			12:00-12:50	MTu	ThF	Wham 312		Hurley
497a-4	<b>Senior Honors Seminar</b>							
1			4:00-4:50	MTu	ThF	Wham 312		
497b-4	<b>Senior Honors Seminar</b>							
1			5:45-7:25 pm	Tu	Th	HEc 122		Griffin
		1	1:00-1:50	MTu	ThF	Wham 321		Griffin
497c-4	<b>Senior Honors Seminar—Readings</b>							
1	1	1	To be arranged					
499-2 to 4	<b>Readings in English</b>							
1	1	1	To be arranged					English majors and consent of department
500-2	<b>Materials and Methods of Research in English</b>							
1			8:00-8:50	M	Th	Wham 329		Rainbow
2			8:00-8:50	Tu	F	Wham 329		Rainbow
501-4	<b>Old English Grammar</b>							
1			9:00-9:50	MTu	ThF	Wham 312		Rainbow
502-4	<b>Beowulf</b>							
1			2:00-2:50	MTu	ThF	Wham 137		Gardner
504-4	<b>Advanced English Syntax</b>							
1			10:00-10:50	MTu	ThF	Wham 312		Parish
505-4	<b>Contrastive Linguistic Structures</b>							
1			11:00-11:50	MTu	ThF	Wham 137		
506-3	<b>Old Norse</b>							
1			To be arranged					Rainbow
508-4	<b>Studies in Chaucer</b>							
1			3:00-4:50	Tu	Th	Wham 301b		Gardner
509-4	<b>Studies in Middle English</b>							
1			8:00-9:50	M	W	Wham 301b		Rainbow

Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				
511-4		Studies in the Renaissance	1 8:00-9:50	Tu Th	Wham 301b	
513-4		Studies in 17th Century Literature	1 1:00-2:50	M W	Wham 301b	
514-4		Studies in Restoration and 18th Century Literature	1 11:00-12:50	Tu Th	Wham 301b	Vieth
			1 10:00-11:50	Tu Th	Wham 301b	Vieth
518-4		Studies in English Literature: 1885-1914	1 10:00-11:50	Tu Th	Wham 301b	Boyle
519-4		Studies in Contemporary British Literature	1 10:00-11:50	M W	Wham 301b	
520-4		Studies in Romantic Writers	1 1:00-2:50	M W	Wham 301b	Benziger
521-4		Studies in Victorian Poetry	1 1:00-2:50	M W	Wham 301b	Hillegas
524-4		Studies in the Metaphysical Poets	1 1:00-2:50	Tu Th	Wham 301b	
532-4		Studies in American Transcendentalism	1 8:00-9:50	Tu Th	Wham 301b	Stibitz
534-4		Studies in Early 19th Century American Writers	1 1:00-2:50	Tu Th	Wham 301b	Webb
			1 3:00-4:50	M W	Wham 301b	Moss
536-4		Studies in Later 19th Century American Writers	1 10:00-10:50	MTu ThF	M 209	Faner
			1 3:00-4:50	Tu Th	Wham 301b	
537-4		Studies in 20th Century American Writers	1 3:00-4:50	Tu Th	HEc 122	
538-4		Problems in American Literature	1 11:00-12:50	M W	Wham 301b	Moss
543-4		Studies in Victorian Non-Fiction Prose	1 5:45-7:25 pm	Tu Th	HEc 122	Partlow
555-4		Studies in Victorian Novel	1 8:00-9:50	M W	Wham 301b	Partlow
560-4		Studies in Renaissance Drama	1 10:00-11:50	M W	Wham 301b	Harris
566-4		Studies in Shakespeare	1 8:00-8:50	MTuWTh	HEc 122	Baldwin
579a-4		Studies in Modern Literature: Eliot and James	1 3:00-4:50	M F	HEc 122	Moore
579b-4		Studies in Modern Literature: Yeats and Joyce	1 3:00-4:50	M F	HEc 122	Moore
580-4		Traditional Themes	1 7:35-9:15 pm	M W	HEc 122	
585-2		Teaching College Composition	1 8:00-9:50	W	M 209	Davis
			1 To be arranged			
			1			
588a-3		Methods of Teaching English As A Foreign Language	1 9:00-9:50	MTu ThF	Wham 321	Parish
588b-3		Methods of Teaching English As A Foreign Language	1 9:00-9:50	MTu ThF	HEc 122	Parish
588c-3		Methods of Teaching English As A Foreign Language	1 1:00-1:50	MTu ThF	HEc 122	Parish
594-4		Studies in Literary Form and Symbolic Action	1 1:00-2:50	Tu Th	Wham 301b	Duncan
597-2 to 4		Readings in Linguistics	1 1 1 To be arranged			
598a-1 to 3		Review of English and American Literature	1 1 1 To be arranged			Restricted to master of arts students
598b-1 to 3		Review of English and American Literature	1 1 1 To be arranged			Restricted to master of arts students
600-1 to 16		Dissertation	1 1 1 To be arranged			

## FINANCE (FIN)

301-1 to 6		Readings in Finance	1 1 1 To be arranged			Fenstermaker
305-4		Personal Finance	1 10:00-10:50	MTu ThF	M 210	
			1 8:00-8:50	MTu ThF	Gym 204	
			1 8:00-8:50	MTu ThF	Wham 210	
320-5		Introduction to Business Finance	1 1 1 11:00-11:50	MTuWThF	Wham 302	Buboltz
			2 11:00-11:50	MTuWThF	M 215	

## 120 FINANCE (FIN)

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
320-5		<b>Introduction to Business Finance</b>		<b>Acct 251c, Econ 215c</b>	
	2	2	12:00-12:50	MTuWThF	Wham 302 Buboltz
	3		12:00-12:50	MTuWThF	Wham 302 Buboltz
	4		2:00-2:50	MTuWThF	Wham 302 Buboltz
323-4		<b>Investments</b>			<b>320</b>
	1		9:00-9:50	W F	P 111 Winn
			9:00-9:50	Tu	M 215
			9:00-9:50	Th	Wham 112
	1		10:00-10:50	TuWThF	P 204 Winn
324-4		<b>Security Analysis</b>			<b>323</b>
	1		8:00-8:50	M W	Arena 125 Buboltz
			8:00-8:50	Tu Th	Tech A310
325-4		<b>Financial Institutions</b>			<b>Economics 214</b>
	1		9:00-9:50	M WTh	P 204 Fenstermaker
		1	9:00-9:50	MTuWTh	HEc 106
326-4		<b>Commercial Bank Management</b>			<b>Junior standing</b>
	1		10:00-10:50	MTuWTh	Tech A208 Fenstermaker
327-4		<b>General Insurance</b>			<b>Junior standing</b>
	1		8:00-8:50	MTuW F	M 210 Shell
	2		8:00-8:50	MTuW F	M 201
328-3		<b>Real Estate</b>			
	1		10:00-10:50	M W F	M 201 Waters
371-4		<b>Business Law I</b>			
	1		1:00-1:50	MTuWTh	Ag 166 Waters
	1	1	9:00-9:50	TuWThF	L 221 Fleerlage
	2		1:00-1:50	MTuWTh	L 131 Fleerlage
	3		9:00-9:50	TuWThF	Wham 302 Fleerlage
372-4		<b>Business Law II</b>			
	1		10:00-10:50	M WThF	Tech A320 Waters
373-4		<b>Business Law III</b>			
	1		10:00-10:50	M WThF	L 221 Waters
421-4		<b>Management of Bus. Finance</b>			<b>320</b>
	1		2:00-2:50	M WThF	Tech A308 Hong
		1	2:00-2:50	MTuW F	HEc 106 Hong
422-4		<b>Advanced Financial Mgt.</b>			<b>421</b>
	1		2:00-2:50	MTuWTh	M 307 Winn
428-4		<b>Life Insurance</b>			
	1		8:00-8:50	M WThF	M 302 Shell
430-4		<b>Business Finance</b>			<b>Restricted to MBA students</b>
	1		11:00-11:50	MTu ThF	Tech D131 Winn
473-4		<b>Business in its Legal Environment</b>			<b>Senior standing</b>
	1	1	11:00-11:50	MTu ThF	M 215 Waters
475-4		<b>Budgeting and Systems</b>			<b>320, Acct 251c</b>
	1		3:00-3:50	MTuW F	Wham 210 Hong
		1	3:00-3:50	MTuW F	M 302 Hong

## FOOD AND NUTRITION (F &amp; N)

100-3		<b>Fundamentals of Nutrition</b>			
	1		1:00-1:50	Tu ThF	HEc 140b Payne
		1	1:00-1:50	M W F	HEc 140b Payne
106-3		<b>Fundamentals of Foods</b>			
	1		9:00-10:50	M W	HEc 212 Becker
			9:00-9:50	F	HEc 212 Becker
256-5		<b>Science of Food</b>			<b>100, GSA 101c or equivalent</b>
	1		12:00-12:50	M W F	HEc 140b Harper
			12:00-1:50	Tu Th	HEc 214 Harper
	2		12:00-12:50	M W F	HEc 140b Harper
			9:00-10:50	Tu Th	HEc 214 Harper
	3		12:00-12:50	M W F	HEc 140b Harper
			12:00-1:50	Tu Th	HEc 212
	1		11:00-12:50	Tu Th	HEc 212 Becker
			12:00-12:50	M W F	HEc 203 Harper
	2		11:00-12:50	Tu Th	HEc 214 Harper
			12:00-12:50	M W F	HEc 203 Harper
	T3		12:00-12:50	M W F	HEc 203 Harper
			3:00-4:50	W F	HEc 212 Harper
320-3		<b>Nutrition</b>			<b>100, Chem 101b,c, GSA 301</b>
	1		9:00-9:50	M W	HEc 203 Payne
			9:00-10:50	F	HEc 214 Payne
	1		3:00-4:50	W	HEc 214 Payne
			3:00-3:50	M F	HEc 203 Payne
321-3		<b>Food and Nutrition Demonstration</b>			<b>256</b>
	1		2:00-2:50	Tu Th	HEc 203
			3:00-4:50	Tu Th	HEc 140b



Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time	
2	2:00–2:50	Tu Th	HEc 203	
	1:00–2:50	W F	HEc 140b	
1	2:00–2:50	M W	HEc 140b	
	1:00–2:50	Tu Th	HEc 140b	
2	2:00–2:50	M W	HEc 140b	
	3:00–4:50	M W	HEc 101	
<b>335–4</b>	<b>Meal Management</b>			<b>256</b>
1	3:00–3:50	Tu Th	HEc 203	Becker
	4:00–5:50	Tu Th	HEc 105	Becker
2	3:00–3:50	Tu Th	HEc 203	Becker
	4:00–5:50	M W	HEc 105	Becker
1	10:00–10:50	Tu Th	HEc 203	Becker
	11:00–12:50	Tu Th	HEc 105	Becker
2	10:00–10:50	Tu Th	HEc 203	Becker
	12:00–1:50	M W	HEc 105	Becker
<b>361–3</b>	<b>Food Service Organization and Management</b>			<b>256</b>
1	8:00–8:50	M W F	HEc 212	Becker
<b>362–3</b>	<b>Institution Equipment and Layout</b>			<b>256</b>
1	8:00–8:50	Tu Th S	HEc 214	Becker
<b>363–3</b>	<b>Food Purchasing for Institutions</b>			<b>256</b>
1	8:00–8:50	M F	HEc 212	Becker
	8:00–9:50	W	HEc 212	Becker
<b>390–3</b>	<b>Diet Therapy</b>			<b>320</b>
1	1:00–1:00	M W F	HEc 203	
<b>420–3</b>	<b>Recent Developments in Nutrition</b>			<b>320 or equivalent</b>
1	8:00–8:50	M W F	HEc 212	Konishi
<b>481–2 to 4</b>	<b>Readings</b>			<b>320 or equivalent</b>
1	To be arranged			
<b>515–1</b>	<b>Seminar</b>			<b>420 or 421</b>
1	1:00–1:50	F	HEc 213	Konishi
1	1:00–1:50	F	HEc 213	Konishi
1	1:00–1:50	F	HEc 213	Konishi
<b>520–3</b>	<b>Advanced Nutrition</b>			<b>420 or equivalent</b>
1	11:00–11:50	M W F	HEc 212	Payne
<b>556–4</b>	<b>Advanced Experimental Food</b>			<b>500</b>
1	2:00–4:50	Tu Th	HEc 214	Harper
<b>572–2 to 8</b>	<b>Special Problems</b>			<b>500</b>
1	To be arranged			
1	To be arranged			
1	To be arranged			
<b>599–5 to 9</b>	<b>Thesis</b>			
1	To be arranged			Konishi
1	To be arranged			Konishi
1	To be arranged			Konishi

## Home Economics Honors Courses: (HEc)

<b>387–2 to 4</b>	<b>Special Problems—Honors</b>		<b>Consent of department</b>
1	To be arranged		
1	To be arranged		
1	To be arranged		
<b>388–2 to 4</b>	<b>Research and Investigation—Honors</b>		
1	To be arranged		
1	To be arranged		
1	To be arranged		

## FOREIGN LANGUAGES

## Chinese (Chin)

<b>201a–5</b>	<b>Intermediate Chinese</b>		<b>GSD 120–9 or 2 years high school</b>
1	11:00–11:50	MTuWThF	Gym 204
<b>201b–5</b>	<b>Intermediate Chinese</b>		<b>GSD 120–9 or 2 years high school</b>
1	11:00–11:50	MTuWThF	M 306a
<b>201c–5</b>	<b>Intermediate Chinese</b>		<b>GSD 120–9 or 2 years high school</b>
1	11:00–11:50	MTuWThF	Wham 210

## French (Fr)

<b>161–0</b>	<b>French for Graduate Students</b>		
1	3:00–3:50	MTu Th	Wh 207
1	3:00–3:50	M W F	Wh 207
1	3:00–3:50	M W F	Wh 207
2	3:00–3:50	MTu Th	Wh 203
2	3:00–3:50	M W F	Wh 203
2	3:00–3:50	M W F	HEc 104

## 122 FOREIGN LANGUAGES (FR)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite
Fall	Winter	Spring	Time				Instructor
201a-3	Intermediate French			GSD 123-9		or 2 years high school	
1			8:00-8:50	MTu	ThF	Wh 207	
	1		10:00-10:50	MTuW	F	Wh 207	
2			9:00-9:50	MTuW	F	Comm 122	
3			11:00-11:50	MTuW	F	Wh 207	
4			2:00-2:50	MTuW	F	HEc 106	
5			3:00-3:50	M	WThF	Arena 121	
6			4:00-4:50	MTuWTh		Wh 207	
7			5:45-7:25 pm	M	W	Wh 207	
201b-3	Intermediate French			201a		or 3 years high school	
1			12:00-12:50	M	W F	M 202	
	1		8:00-8:50	M	W F	Wh 207	
		1	11:00-11:50	M	W F	HEc 104	
	2		9:00-9:50	MTu	Th	M 209	
	3		11:00-11:50	M	W F	Wh 113	
	4		2:00-2:50	M	W F	Wh 207	
	5		3:00-3:50	M		Wh 113	
			3:00-3:50	Tu	Th	Wh 207	
201c-3	Intermediate French					201b	
1			1:00-1:50	M	W F	Wh 207	
	1		1:00-1:50	M		M 302	
			1:00-1:50	Tu	Th	Wh 214	
		1	8:00-8:50	M	W F	HEc 104	
		2	10:00-10:50	MTu	Th	Wh 207	
		3	12:00-12:50	M	W F	HEc 104	
		4	3:00-3:50	MTu	Th	M 102	
	5		4:00-4:50	MTu	Th	HEc 104	
220a-2	French Conversation						
1			8:00-8:50		W F	M 202	
2			9:00-9:50		W F	Wh 207	
3			10:00-10:50		W F	Wh 203	
4			11:00-11:50	Tu	Th	Ag 170	
5			12:00-12:50	Tu	Th	Wh 203	
6			2:00-2:50	Tu	Th	Wh 203	
220b-2	French Conversation						
1			8:00-8:50	Tu	Th	M 202	
2			9:00-9:50		W F	Wh 207	
3			10:00-10:50	Tu	Th	Wh 203	
4			11:00-11:50	Tu	Th	Comm 144	
5			12:00-12:50		W F	Wh 203	
6			2:00-2:50	Tu	Th	Wh 203	
220c-2	French Conversation						
	1		8:00-8:50	Tu	Th	M 202	
	2		9:00-9:50		W F	Wh 207	
	3		10:00-10:50		W F	Wh 203	
	4		11:00-11:50		W F	M 202	
	5		12:00-12:50	Tu	Th	Wh 203	
	6		2:00-2:50	Tu	Th	Wh 203	
310a-3	Survey of French Literature					201c	
1			9:00-9:50	MTu	Th	HEc 106	
2			1:00-1:50	M	W F	HEc 106	
310b-3	Survey of French Literature					201c	
1			9:00-9:50	MTu	Th	Wham 206	Gobert
2			1:00-1:50	M	W F	Comm 144	
310c-3	Survey of French Literature					201c	
	1		9:00-9:50	MTu	Th	M 210	Gobert
	2		1:00-1:50	M	W F	M 201	
320a-2	Advanced French Conversation						
1			9:00-9:50		W F	Ag 116	Gobert
2			1:00-1:50	Tu	Th	HEc 106	
320b-2	Advanced French Conversation						
1			9:00-9:50		W F	Wham 206	
2			1:00-1:50	Tu	Th	M 303	
320c-2	Advanced French Conversation						
	1		9:00-9:50		W F	M 210	Gobert
	2		1:00-1:50	Tu	Th	M 201	
350a-4	Advanced Composition and Conversation						
1			10:00-10:50	MTuWTh		Ag 220	Gobert
350b-4	Advanced Composition and Conversation					350a	
	1		10:00-10:50	MTuWTh		M 303	
352-5	French Conversation and Phonetics						
	1		10:00-10:50	MTuWThF		Ag 220	
403a-3	French Literature of 18th Century						
1			12:00-12:50	M	WTh	Ag 222	Gobert
403b-3	French Literature of 18th Century						
1			12:00-12:50	M	WTh	M 303	Gobert
403c-3	French Literature of 18th Century						
	1		12:00-12:50	M	WTh	Gym 204	Gobert

Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite	Instructor
405-3		French Contemporary Novel					
1			2:00-2:50	M W F	Ag 155		
407-3		French Poetry Since 1900					
1			2:00-2:50	M W F	Wham 228		
501-2 to 6		Seminar on Selected French Author					
1			9:00-9:50	W F	Ag 170		Gobert
502-3		French Literature to Rabelais					
1			11:00-11:50	MTu Th	Wham 137		
503-3		Rabelais and Montaigne					
1			11:00-11:50	MTu Th	Ag 218		
504-3		La Pleiade					
1			11:00-11:50	M	Wham 212		
			11:00-11:50	Tu Th	Wham 312		
510-4		French Literature from 1850 to 1900					
1			2:00-2:50	MTuW F	Wham 301a		
515b-3		Old French					
1			1:00-1:50	M	Tech A322		
			1:00-1:50	Tu Th	Tech A320		Davis
543-2 to 6		Research Problems					
1	1	1	To be arranged				
599-2 to 9		Thesis					
1	1	1	To be arranged				
German (Ger)							
161-0		German for Graduate Students					
1			4:00-4:50	MTu Th	HEc 106		
	1		4:00-4:50	MTu Th	M 308		
		1	4:00-4:50	MTu Th	M 303		
201a-3		Intermediate German		GSD 126c	or 2 years high school		
1			9:00-9:50	MTuW F	Wh 212		
	1		9:00-9:50	MTuW F	Comm 114		
2			11:00-11:50	MTuW F	Wh 207		
3			1:00-1:50	MTuW F	Wh 212		
4			2:00-2:50	MTuW F	Wh 212		
T5			3:00-3:50	MTuW F	To be arranged		
201b-3		Intermediate German		Ger 201a	or 3 years high school		
1			9:00-9:50	M W F	Comm 114		
	1		9:00-9:50	M W F	Wh 212		
		1	9:00-9:50	M W F	Comm 144		
	2		11:00-11:50	M W F	HEc 104		
	3		1:00-1:50	M W F	Wh 212		
	4		2:00-2:50	M W F	Ag 148		
201c-3		Intermediate German					201b
	1		9:00-9:50	M W F	Wh 212		
	2		11:00-11:50	M W F	M 303		
	3		1:00-1:50	M W F	Wh 212		
	T4		2:00-2:50	M W F	Wh 212		
220a-2		German Conversation					
1			9:00-9:50	Tu Th	Ag 116		
2			11:00-11:50	Tu Th	Wh 212		
3			1:00-1:50	Tu Th	M 303		
T4			2:00-2:50	Tu Th	HEc 106		
220b-2		German Conversation					
1			9:00-9:50	Tu Th	Wh 212		
2			11:00-11:50	Tu Th	HEc 104		
3			1:00-1:50	Tu Th	Wh 212		
T4			2:00-2:50	Tu Th	Wh 212		
220c-2		German Conversation					
	1		9:00-9:50	Tu Th	Wh 212		
	2		11:00-11:50	Tu Th	M 303		
	3		1:00-1:50	Tu Th	Wh 212		
	T4		2:00-2:50	Tu Th	Wh 212		
301a-4		Survey to 1500					
1			9:00-9:50	MTu ThF	Wh 203		French
301b-4		Survey 1500-1800					
1			9:00-9:50	M	Ag 214		
			9:00-9:50	Tu ThF	Tech D131		Liedloff
303-4		Deutsche Novelle					
	1		9:00-9:50	MTu Th	M 209		French
			9:00-9:50	F	M 206		
304a-4		Advanced Composition and Conversation					
1			10:00-10:50	M WThF	Wham 312		
304b-4		Advanced Composition and Conversation					
1			10:00-10:50	M WThF	Gym 204		
304c-4		Advanced Composition and Conversation					
	1		10:00-10:50	M WThF	Gym 204		
310a-4		Intro. to German Classical Literature					
1			11:00-11:50	MTu ThF	P 301		Liedloff



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>310b-4 German Classical Literature II</b>							
1			11:00-11:50	MTu	ThF	P 301	French
<b>313-4 19th Century Drama</b>							
	1		11:00-11:50	M		HEc 303	
			11:00-11:50	Tu	ThF	Gym 204	
<b>401a-2 Faust I</b>							
1			8:00-8:50	Tu	Th	P 301	Hartwig
<b>401b-2 Faust II</b>							
	1		8:00-8:50	Tu	Th	M 303	Hartwig
<b>402-3 Advanced German Syntax</b>							
1			10:00-10:50	M	W F	Wh 113	French
<b>403-3 Lyrics and Ballads</b>							
	1		8:00-8:50	M	W F	Wham 208	Hartwig
<b>411a-3 Middle High German</b>							
	1		10:00-10:50	M	W F	M 303	French
<b>411b-3 Middle High German</b>							
	1		10:00-10:50	M	W F	Comm 111	French
<b>497-1 to 2 18th Century Readings</b>							
1			2:00-2:50	Tu	Th	Wh 214	Hartwig
<b>498-1 to 2 19th Century Readings</b>							
	1		2:00-2:50	Tu	Th	P 309	Hartwig
<b>499-1 to 2 20th Century Readings</b>							
	1		2:00-2:50	Tu	Th	Arena 121	Hartwig
<b>501-2 Seminar on Selected Authors</b>							
1			To be arranged				
<b>512-3 19th Century Novel</b>							
	1		11:00-11:50	M	W F	Comm 148	Liedloff
<b>513-3 20th Century Novel</b>							
	1		9:00-9:50	M	W F	Ag 218	Liedloff
<b>514-3 Seminar in Folklore</b>							
	1		To be arranged				Liedloff
<b>543-2 to 6 Research Problems</b>							
1	1	1	To be arranged				
<b>599-3 to 9 Thesis</b>							
1	1	1	To be arranged				

## Greek (Grk)

<b>201a-4 Intermediate Greek</b>							
1			To be arranged				
<b>201b-4 Intermediate Greek</b>							
	1		To be arranged				
<b>201c-4 Intermediate Greek</b>							
	1		To be arranged				
<b>315-2 to 8 Readings from Greek Authors</b>							
1	1	1	To be arranged				

## Latin (Lt)

<b>201a-4 Intermediate Latin</b>							
1			11:00-11:50	MTuWThF		Wh 203	
<b>201b-4 Intermediate Latin</b>							
	1		11:00-11:50	MTu	ThF	Wh 203	
<b>201c-4 Intermediate Latin</b>							
	1		11:00-11:50	MTu	ThF	Wh 203	
<b>302-4 Virgil's Eclogues &amp; Georgics</b>							
	1		9:00-9:50	MTuWTh		Comm 148	
<b>313-4 Letters of Pliny</b>							
	1		9:00-9:50	MTuWTh		Ag 218	
<b>315-2 to 8 Readings from Latin Authors</b>							
1	1	1	To be arranged				
<b>342-4 Advanced Composition</b>							
	1		9:00-9:50	MTuWTh		Wh 203	

## Portuguese (Port)

<b>201a-3 Intermediate Portuguese</b>						GSD 135-9 or 2 years high school	
	1		3:00-3:50	M	W F	Wham 328	Ekker
<b>201b-3 Intermediate Portuguese</b>						GSD 135-9 or 2 years high school	
	1		3:00-3:50	M	W F	M 303	Ekker
<b>201c-3 Intermediate Portuguese</b>						GSD 135-9 or 2 years high school	
	1		3:00-3:50	M	W F	Pierce 130	Ekker

## Romance Philology (RPh)

<b>410-4 Romance Philology I</b>							
	1		1:00-1:50	Tu	ThF	Wham 112	Canfield
			1:00-1:50		W	Wham 321	

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>Russian (Russ)</b>							
201a-3	Intermediate Russian					GSD 136-9	or 2 years high school
1			9:00-9:50	M	W	F	Ag 148
201b-3	Intermediate Russian					GSD 136-9	or 2 years high school
1			9:00-9:50	M	W	F	M 306a
201c-3	Intermediate Russian					GSD 136-9	or 2 years high school
1			9:00-9:50	M	W	F	Pierce 130
220a-2	Russian Conversation						
1			9:00-9:50	Tu	Th		HEc 203
220b-2	Russian Conversation						
1			9:00-9:50	Tu	Th		HEc 120
220c-2	Russian Conversation						
1			9:00-9:50	Tu	Th		HEc 203
308a-3	Survey of Russian Literature						
1			9:00-9:50	M	W	F	M 202
308b-3	Survey of Russian Literature						
1			9:00-9:50	M	W	F	Ag 174
308c-3	Survey of Russian Literature						
1			9:00-9:50	M	W	F	Comm 148
330a-2	Advanced Composition and Conversation						
1			9:00-9:50	Tu	Th		M 202
330b-2	Advanced Composition and Conversation						
1			9:00-9:50	Tu	Th		Ag 220
330c-2	Advanced Composition and Conversation						
1			9:00-9:50	Tu	Th		Pierce 130
411a-4	Introduction to Russian Classical Literature						
1			11:00-11:50	M	WThF		Ag 218
411b-4	Introduction to Russian Classical Literature						
1			11:00-11:50	M	WThF		Wham 137
452-4	Advanced Composition and Conversation						
1			11:00-11:50	M			Ag 155
			11:00-11:50		WThF		Ag 170
509-3	Russian Literature thru 17th Century						
1			10:00-10:50	M	W	F	Comm 148
510-3	Russian Literature of 18th Century						
1			10:00-10:50		W	F	Ag 218
			10:00-10:50	M			Ag 174
514a-2	History of Russian Language						
1			10:00-10:50	Tu	Th		Tech A122
514b-2	History of Russian Language						
1			10:00-10:50	Tu	Th		Tech A122
514c-2	History of Russian Language						
1			10:00-10:50	Tu	Th		Tech A122
520-4	Russian Linguistic Structure						
1			11:00-11:50	Tu			Ag 218
			10:00-10:50	M	W	F	Ag 218

**Spanish (Span)**

161-0	Spanish for Graduate Students						
1	1	1	3:00-3:50	M	W	F	Ag 220
2	2	2	3:00-3:50	M	W	F	Ag 154
201a-3	Intermediate Spanish					GSD 140-9	or 2 years high school
1			8:00-8:50	M	WThF		HEc 104
	1		3:00-3:50	MTuW	F		Arena 121
2			9:00-9:50	M	WThF		HEc 104
	2		3:00-3:50	MTuW	F		Arena 123
3			10:00-10:50	MTu	ThF		HEc 104
4			11:00-11:50	MTuW	F		Ag 154
5			1:00-1:50	MTu	ThF		HEc 104
6			2:00-2:50	M	WThF		HEc 104
201b-3	Intermediate Spanish						201a
1			8:00-8:50	M	W	F	M 303
	1		3:00-3:50	M	W	F	Wh 113
	2		11:00-11:50	M	W	F	Ag 220
	3		1:00-1:50	M	W	F	Wham 312
	4		2:00-2:50	M	W	F	Ag 220
201c-3	Intermediate Spanish						201b
1			3:00-3:50	M	W	F	Wh 214
	1		8:00-8:50	M	W	F	Comm 144
	2		11:00-11:50	M	W	F	Arena 121
	3		1:00-1:50	M	W	F	Wh 214
	4		2:00-2:50	M	W	F	Wh 113

## 126 FOREIGN LANGUAGES (SPAN)

Course	No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite	Instructor
Fall	Winter	Spring						
220a-2			Spanish Conversation					
1			10:00-10:50		W F	M 303		
2			10:00-10:50		W F	M 202		
3			12:00-12:50		Tu Th	HEc 104		
4			12:00-12:50		Tu Th	M 202		
5			3:00-3:50		Tu Th	HEc 104		
τ6			3:00-3:50		Tu Th	Wh 214		
220b-2			Spanish Conversation					
1			10:00-10:50		W F	M 305a		
2			10:00-10:50		W F	M 202		
3			12:00-12:50		Tu Th	M 305a		
4			12:00-12:50		Tu Th	Wh 214		
5			3:00-3:50		Tu Th	M 202		
220c-2			Spanish Conversation					
1			10:00-10:50		W F	M 202		
2			10:00-10:50		W F	Comm 148		
3			12:00-12:50		Tu Th	M 308		
4			12:00-12:50		Tu Th	M 202		
5			3:00-3:50		Tu Th	M 308		
310a-3			Survey of Spanish Literature					
1			2:00-2:50		M W F	Tech A222		Davis
310b-3			Survey of Spanish Literature					
1			10:00-10:50		M W F	HEc 104		Baralt
310c-3			Survey of Spanish Literature					
1			2:00-2:50		M W F	Pierce 130		Davis
320a-2			Advanced Composition and Conversation					
τ1			10:00-10:50		W F	To be arranged		Ulnor
2			11:00-11:50		Tu Th	M 202		Baralt
3			2:00-2:50		Tu Th	Ag 218		Davis
320b-2			Advanced Composition and Conversation					
τ1			10:00-10:50		Tu Th	To be arranged		
2			11:00-11:50		Tu Th	M 202		Artiles
3			2:00-2:50		Tu Th	Wh 207		Davis
320c-2			Advanced Composition and Conversation					
τ1			10:00-10:50		W F	To be arranged		
2			11:00-11:50		Tu Th	Wh 214		Artiles
3			2:00-2:50		Tu Th	Wh 214		Davis
333a-3			Survey of Spanish American Literature					
1			11:00-11:50		M W F	Wh 212		
333b-3			Survey of Spanish American Literature					
1			11:00-11:50		M W F	Wh 212		
333c-3			Survey of Spanish American Literature					
1			11:00-11:50		M W F	Wh 212		
401-3			Spanish Novel of 19th Century					
1			10:00-10:50		MTu Th	Wh 212		Artiles
403-3			Spanish Poetry					
1			2:00-2:50		M W F	Wh 212		Davis
404b-3			Spanish Literature of the 20th Century					
1			9:00-9:50		M	Wham 112		
			9:00-9:50		Tu Th	Wham 329		Artiles
422-3			Contemporary Spanish American Poetry					
1			10:00-10:50		M	M 202		Baralt
			10:00-10:50		W	Wham 312		
			10:00-10:50		F	Wham 301b		
423-3 to 4			Mexican Novel of 20th Century					
1			9:00-9:50		M W F	Wh 214		
500-2			Seminar in Latin American Poetry					
1			2:00-3:50		Tu	HEc 104		
501-2			Seminar on Selected Spanish Authors					
1			11:00-11:50		M W	To be arranged		Artiles
515b-3			Old Spanish					
1			1:00-1:50		M	Wh 113		
			1:00-1:50		Tu Th	Wh 207		Davis
520-3			Seminar in Syntax					
1			9:00-9:50		M WThF	Wh 214		
525-3			The Spanish Ballads					
1			11:00-11:50		MTu Th	Comm 214		
543-2 to 6			Research Problems					
1	1	1	To be arranged					
560-4			Bibliography and Research Methods					
1			11:00-11:50		MTu ThF	Library		Woodbridge
599-2 to 9			Thesis					
1	1	1	To be arranged					

## FORESTRY (FOR)

104-3			Introduction to Forestry					
1			8:00-8:50		Tu Th	L 151		Andresen
			8:00-10:50		S	To be arranged		



Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring			
<b>221-4 Dendrology</b>					
1		8:00-8:50	M W F	Ag 214	Hosley
		10:00-11:50	M	Ag 195	
2		8:00-8:50	M W F	Ag 214	Hosley
		2:00-3:50	Tu	Ag 187	
3		8:00-8:50	M W F	Ag 214	Hosley
		2:00-3:50	Th	Ag 187	
4		8:00-8:50	M W F	Ag 214	Hosley
		8:00-9:50	Th	Ag 187	
	1	8:00-8:50	M WTh	Ag 225	Hosley
		8:00-9:50	Tu	Ag 195	
<b>230-2 Lumber Grading</b>					
	1	11:00-11:50	Tu	VTI Bldg 4	Rice
		11:00-12:50	Th	VTI Bldg 4	
<b>301-4<sup>1</sup> Soil Science for Foresters</b>					
1		12:00-12:50	MTu Th	Ag 214	Jones
		12:00-1:50	W	Ag 167	
2		12:00-12:50	MTu Th	Ag 214	Jones
		9:00-10:50	W	Ag 167	
<b>306-3 Silvical Field Studies</b>					<b>GSA 340</b>
1		To be arranged		Camp	Kurmes
<b>320-4 Wood Technology</b>					<b>GSA 201c</b>
1		1:00-1:50	Tu Th	Ag 116	Moslemi
		10:00-11:50	M W	Ag 187	
2		1:00-1:50	Tu Th	Ag 116	Moslemi
		1:00-2:50	M W	Ag 187	
<b>330-2 Harvesting Forest Products</b>					
1		9:00-9:50	M W	Ag 225	Moslemi
<b>333-4 Manufacture of Forest Products</b>					
1		11:00-11:50	M W F	Ag 168	Moslemi
		9:00-11:50	S	Ag 168	Moslemi
<b>340-3 Forest Protection</b>					
1		To be arranged		Camp	Richmond
<b>350a-3 Forest and Outdoor Recreation</b>					
1		11:00-11:50	M W	Ag 214	McCurdy
		12:00-12:50	F	Ag 214	McCurdy
<b>350b-3 Forest and Outdoor Recreation (Field)</b>					
1		To be arranged		Camp	McCurdy
<b>360-4 Farm Forestry</b>					<b>GSA 201c</b>
1		10:00-10:50	MTu Th	Ag 168	Richmond
		10:00-11:50	F	Ag 168	
<b>363a-5 Forest Mensuration</b>					<b>GSD 108c, 114c</b>
1		2:00-2:50	MTuWTh	Ag 214	Neumann
		9:00-11:50	F	Ag 195	
2		2:00-2:50	MTuWTh	Ag 214	Neumann
		2:00-4:50	F	Ag 195	
<b>363b-4 Forest Mensuration (Field)</b>					<b>363a</b>
1		To be arranged		Camp	Neumann
<b>365a-4 Practice of Silviculture</b>					<b>GSA 340</b>
1		10:00-10:50	M W	Ag 116	Kurmes
		10:00-11:50	Th	Ag 116	
<b>365b-3 Field Silviculture</b>					<b>365a</b>
1		To be arranged		Camp	Kurmes
<b>369-3 Photogrammetry</b>					<b>GSD 114c</b>
1		9:00-10:50	Tu Th	Ag 195	Richmond
2		3:00-4:50	M W	Ag 195	Richmond
<b>375-4 Forest Management</b>					<b>363a, 365a, 470a</b>
1		1:00-1:50	Tu ThF	Ag 168	Neumann
		9:00-11:50	Tu	Ag 187	
2		1:00-1:50	Tu ThF	Ag 168	Neumann
		9:00-11:50	Th	Ag 187	
<b>381-1<sup>2</sup> Agriculture Seminar</b>					<b>Senior standing</b>
1		4:00-4:50	Tu	Ag 225	
	1	4:00-4:50	Tu	Ag 214	
	1	4:00-4:50	Tu	Ag 114	
<b>390-1 to 6 Special Problems in Forestry</b>					<b>Consent of department</b>
1	1	1	To be arranged		
<b>410-3 Forestry Management for Wildlife</b>					<b>Zool 463</b>
1		9:00-9:50	M W F	To be arranged	Hosley
<b>440-4<sup>3</sup> Ecology of Grasses and Grasslands</b>					<b>GSA 340</b>
1		9:00-9:50	Tu Th	LS 323	Voigt
		To be arranged	S		
<b>450-4 Forest and Park Management</b>					<b>350z</b>
1		1:00-1:50	MTuWThF	Ag 168	McCurdy
<b>451a-3 Forest and Park Planning and Development</b>					<b>450</b>
1		3:00-4:50	M W	Ag 195	Giesbrecht

## 128 FORESTRY (FOR)

Course No.—Hours		Descriptive Title		Days		Place		Prerequisite Instructor
Fall	Winter	Spring	Time					
451b-4	Forest and Park Planning and Development .....							450, 451a
	1		3:00-4:50	Tu	Th	Ag 195		Giesbrecht
			3:00-3:50		F	Ag 195		
465-2	Forestry Field Studies .....							365a
	1		To be arranged			Camp		Kurmes
466-3	Forest Watershed Management .....							365a, PL I 301
	1		2:00-2:50	Tu	Th	Ag 214		Kurmes
			2:00-3:50		F	Ag 168		
470a-4	Economics of Forestry .....							GSB 211a
	1		11:00-11:50	Tu	WTh	Ag 116		Beazley
			11:00-12:50	M		Ag 116		
470b-4	Economics of Forestry .....							470a
	1		3:00-4:50	Tu	Th	Ag 116		Beazley
471-4 <sup>2</sup>	Land Resource Economics .....							470a or
								Econ 440 or Ag I 350
	1		3:00-4:50	M	W	Ag 116		Beazley
520a-1 to 6	Readings in Forestry .....							Consent of department
	1	1	To be arranged					
520b-1 to 6 <sup>4</sup>	Readings in Resource Economics 471 .....							
	1	1	To be arranged					Beazley
570-3	Principles of Research .....							Consent of department
	1		3:00-4:50	M		Ag 155		Beazley
			3:00-3:50		W	Ag 155		
575-1 to 6	Research .....							Consent of department
	1	1	To be arranged					
581-1 to 6	Seminar .....							Consent of department
	1	1	To be arranged					
599-2 to 9	Thesis .....							
	1	1	To be arranged					

<sup>1</sup> Cross-listed with Plant Industries.<sup>2</sup> Cross-listed with Agricultural Industries, Animal Industries and Plant Industries.<sup>3</sup> Cross-listed with Botany.<sup>4</sup> Cross-listed with Economics 502.

## G E O G R A P H Y (GEOG)

300-4	Introduction to Geography .....							
	1	1	1	10:00-10:50	MTuW	F	Ag 144	
302-4	Introduction to Physical Geography .....							300 or concurrent enrollment
	1	1	1	9:00-9:50	MTuW	F	Ag 158	
304-4	Introduction to Economic Geography .....							300 or concurrent enrollment
	1	1	1	1:00-1:50	MTuW	F	Ag 158	
306-4	Introduction to Cultural Geography .....							300 or concurrent enrollment
	1	1	1	9:00-9:50	MTuW	F	Ag 144	Eggert
310a-4	Introduction to Cartographic Methods .....							300 or concurrent enrollment
	1	1	tl	9:00-9:50	MTuW	F	1007 Elizabeth	
			tl	2:00-2:50	MTuW	F	1007 Elizabeth	
310b-3	Introduction to Cartographic Methods .....							300 or concurrent enrollment
		1		3:00-3:50	M	W	F	1007 Elizabeth
324-4	Restoration and Conservation of Natural Resources .....							
	1		1	8:00-8:50	MTuW	F	Ag 144	
		tl		4:00-4:50	MTuW	F	Ag 158	
343-4	Teaching of Geography .....							300
	1			3:00-3:50	MTuW	F	Ag 158	
387-2 to 4	Honors in Geography .....							Consent of department
	1	1	1	To be arranged				
400-3	Introduction to Geographic Methods .....							Senior major
	tl	1	1	11:00-11:50	TuW	F	Ag 144	
402a-4	Advanced Physical Geography I .....							302 or consent
	1			2:00-2:50	MTuW	F	Ag 144	
		tl		9:00-9:50	MTuW	F	To be arranged	
402b-3	Advanced Physical Geography I .....							402a
	1			1:00-1:50	M	W	F	Ag 144
402c-3	NDEA Institute Advanced Physical Geography I .....							Institute status
	tl			To be arranged				
403a-4	Advanced Physical Geography II .....							302 or consent
	1			8:00-8:50	MTuW	F	Ag 158	
403b-3	Advanced Physical Geography II .....							403a
		1		2:00-2:50	M	W	F	Ag 158
404a-4	Advanced Economic Geography I .....							304 or consent
	1		tl	8:00-8:50	MTuW	F	Ag 158	

Course No.—Hours		Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				
404b-3	Advanced Economic Geography I					404a
1			2:00-2:50	M W F	Ag 144	
404c-3	NDEA Institute Advanced Economic Geography					Institute status
tl			To be arranged			
405a-4	Advanced Economic Geography II					304 or consent
1			2:00-2:50	MTuW	F Arena 123	
405b-3	Advanced Economic Geography II					405a
1			3:00-3:50	M W F	Ag 158	
406a-4	Advanced Cultural Geography I					306 or consent
1			1:00-1:50	MTuW	F Ag 144	
406b-3	Advanced Cultural Geography I					406a
1			3:00-3:50	M W F	Ag 148	
406c-3	Advanced Cultural Geography					Institute status
	NDEA Institute					
tl			To be arranged			
407a-4	Advanced Cultural Geography II					306 or consent
1			2:00-2:50	TuWThF	Ag 174	Gottmann
	1		6:00-7:25 pm	Tu Th	Ag 144	
407b-3	Advanced Cultural Geography II					407a
1			4:00-4:50	M W F	Ag 144	
410a-4	Advanced Geography Techniques					310a or consent
1			4:00-4:50	MTuW	F Ag 144	
410b-4	Advanced Geography Techniques					410a
1			12:00-12:50	M W F	Ag 158	
424-4	Regional Problems in Conservation					300 or consent
tl			3:00-3:50	MTuW	F Ag 144	
440-2 to 6	Readings for Majors					Consent of department, major status
1	1	1	To be arranged			
461a-4	Regional Geography: Anglo-America					
1			12:00-12:50	MTuW	F Ag 144	
461b-3	Regional Geography: Anglo-America					461a
1			8:00-8:50	M W F	Ag 144	
462a-4	Regional Geography: Europe					
1			6:00-7:25 pm	M W	Ag 158	
462b-3	Regional Geography: Europe					462a
1			3:00-3:50	M W F	Ag 148	
464a-4	Regional Geography: Soviet World					
tl			6:00-7:25 pm	Tu Th	Ag 158	
464b-3	Regional Geography: Soviet World					464a
tl			8:00-8:50	M W F	To be arranged	
465a-4	Regional Geography: Subsaharan Africa					
1			4:00-4:50	MTuW	F Ag 158	
465b-3	Regional Geography: Subsaharan Africa					465a
1			12:00-12:50	M W F	Ag 144	
466a-4	Regional Geography: Eastern and Soviet Asia					
tl			6:00-7:25 pm	M W	Ag 144	
466b-3	Regional Geography: Eastern and Soviet Asia					466a
tl			4:00-4:50	M W F	To be arranged	
467a-4	Regional Geography: Latin America					
1			12:00-12:50	MTuW	F Ag 158	
467b-3	Regional Geography: Latin America					467a
1			4:00-4:50	M W F	Ag 148	
470a-4 <sup>1</sup>	Urban Planning					300 or consent
1			3:00-3:50	MTuW	F Ag 158	
471a-4	Regional Planning					300 or consent
1			10:00-10:50	MTuW	F Ag 158	
471b-3	Regional Planning					471a
1			10:00-10:50	M W F	Ag 220	
490a-2	Tutorial in Geography					Senior major
1		tl	10:00-11:50	Tu	Ag 158	
	tl		10:00-11:50	Tu	Ag 158	
490b-2	Tutorial in Geography					Senior major
1		1	10:00-11:50	Tu	Ag 158	
	1		10:00-11:50	Tu	Ag 158	
490c-2	Tutorial in Geography					Senior major
tl	1	1	10:00-11:50	M	Ag 158	
490d-3	NDEA Institute Tutorial in Geography					Institute status
tl			To be arranged			
505a-2	Pro-Seminar Physical					Consent of department
1			3:00-4:50	M	Ag 144	
505b-2	Pro-Seminar Economic					Consent of department
1			3:00-4:50	Tu	Ag 144	
505c-2	Pro-Seminar Cultural					Consent of department
1			3:00-4:50	W	Ag 144	
505d-2	Pro-Seminar Geographic Thought					Consent of department
1			3:00-4:50	F	Ag 144	



## 130 GEOGRAPHY (GEOG)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
511-4			<b>Philosophy of Geography</b>			<b>Consent of department</b>	
		1	7:25-9:15 pm	M	W	Ag 158	
520-2 to 8			<b>Seminar in Physical Geography</b>			<b>Consent of department</b>	
		1	10:00-11:50	M	W	Ag 158	
		1	2:00-3:50	M		HEc 303	
			2:00-3:50		W	Wham 312	
		1	12:00-1:50	M	W	Ag 144	
521-2 to 8			<b>Seminar in Economic Geography</b>			<b>Consent of department</b>	
		1	2:00-3:50	M	W	Ag 158	
		1	10:00-11:50	M	W	M 302	
		1	12:00-1:50	Tu	F	Ag 224	
		1	12:00-1:50	Tu	F	Ag 144	
522-2 to 12			<b>Seminar in Regional Geography</b>			<b>Consent of department</b>	
		1	2:00-3:50	Tu	F	Ag 158	
		1	1:00-2:50	M		Ag 146	
			1:00-2:50		W	Comm 111	
		1	1:00-2:50	Tu	Th	Ag 146	
523-4			<b>Seminar in Cartography</b>			<b>Consent of department</b>	
		1	6:00-7:35 pm	M	W	Ag 144	
524-2 to 8			<b>Seminar in Cultural Geography</b>			<b>Consent of department</b>	
		1	12:00-12:50	MTuW	F	Ag 158	
		1	9:00-10:50	M		Ag 148	
			9:00-10:50		W	Comm 111	
		1	9:00-10:50	Tu	Th	Ag 220	
527-2 to 8			<b>Seminar in Urban and Regional Planning</b>			<b>Consent of department</b>	
		1	11:00-11:50	M	WThF	Ag 158	
		1	2:00-3:50	Tu	Th	Ag 144	
530-2 to 10			<b>Independent Study in Geography</b>			<b>Consent of department</b>	
		1	To be arranged				
540a-2 to 12			<b>Research in Physical Geography</b>			<b>Consent of department</b>	
		1	To be arranged				
540b-2 to 12			<b>Research in Economics Geography</b>			<b>Consent of department</b>	
		1	To be arranged				
540c-2 to 12			<b>Research in Regional Geography</b>			<b>Consent of department</b>	
		1	To be arranged				
540d-2 to 12			<b>Research in Cultural Geography</b>			<b>Consent of department</b>	
		1	To be arranged				
599-3 to 9			<b>Thesis</b>			<b>Consent of department</b>	
		1	To be arranged				
600-1 to 48			<b>Dissertation</b>			<b>Consent of department</b>	
		1	To be arranged				

<sup>1</sup> Cross-listed with the Department of Government

The following rooms should be reserved for optional quiz sections for GSA 330, 331 and GSB 102b for all three terms. But there should be no statement in the printed schedule.

8:00-4:50	Th	Ag 144
8:00-4:50	Th	Ag 158

## GEOLOGY (GEOL)

220-5			<b>Physical Geology</b>			<b>GSA 101c or 110b</b>	
		1	11:00-11:50	MTu	ThF	Ag 216	Sawatzky
			9:00-10:50		W	Ag 174	
		2	11:00-11:50	MTu	ThF	Ag 216	
			11:00-12:50		W	Ag 174	
		13	11:00-11:50	MTu	ThF	Ag 216	
			2:00-3:50	M		Ag 174	
221-5			<b>Historical Geology</b>				<b>220</b>
		1	1:00-1:50	MTu	F	Ag 154	Utgaard
			1:00-1:50		W	Ag 170	
			2:00-3:50		W	Ag 170	
		12	1:00-1:50	TuWThF		To be arranged	
			8:00-9:50	Tu		Ag 170	
302-4			<b>Structural Geology</b>				<b>221</b>
		1	8:00-8:50	MTuW		Ag 174	Sawatzky
			8:00-9:50		F	Ag 174	

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring			
310-4	Crystallography (non-Silicate)				220
1		3:00-4:50	MTu Th	T107	Fang
311-4	Determinative Mineralogy (Non-Silicate)				310 and Chem 311b
1		3:00-4:50	MTu Th	T107	Fang
312-4	Determinative Mineralogy (Silicate)				311 and Chem 111b
1		2:00-3:50	MTu Th	T107	Fang
315-4	Petrology				220 and 310
1		4:00-4:50	W F	Ag 170	Sawatzky
		1:00-2:50	F	Ag 170	
320-4	Economic Geology				315
1		12:00-12:50	MTu F	Ag 170	Sawatzky
		12:00-1:50	W	Ag 170	
410-4	Stratigraphy and Sedimentation				221
1		11:00-11:50	MTu F	Ag 174	Utgaard
		4:00-5:50	W	Ag 174	
414-5 <sup>1</sup>	Paleobotany				Bot 400 and Bot 301 or consent
1		10:00-11:50	M W F	LS 315	Matten
415-4	Optical Mineralogy				311
1		8:00-9:50	M W F	T107	Fang
416-4	X-Ray Crystallography				Consent
1		4:00-5:50	M WTh	T107	Fang
420a-3	Geology of Petroleum				220
1		1:00-1:50	W F	Ag 174	Bell
		12:00-1:50	M	Ag 174	
420b-3	Geology of Petroleum				420a
1		1:00-1:50	W F	Ag 174	Bell
		12:00-1:50	M	Ag 174	
420c-3	Geology of Petroleum				420b
1		1:00-1:50	W F	Ag 174	Bell
		12:00-1:50	M	Ag 174	
425a-5	Invertebrate Paleontology				221
1		10:00-10:50	TuWThF	Ag 170	Utgaard
		1:00-2:50	Th	Ag 170	
425b-4	Invertebrate Paleontology				425a
1		10:00-10:50	TuWThF	Ag 170	Utgaard
		1:00-2:50	Th	Ag 170	
425c-4	Invertebrate Paleontology				425b
1		10:00-10:50	TuWThF	Ag 170	Utgaard
		1:00-2:50	Th	Ag 170	
430-4	Physiographic Provinces of North America				220 and 302
1		6:00-7:50 pm	Tu Th	Ag 174	Harris
		5:45-7:25 pm	W	Ag 170	
431a-4	Geomorphology and Air Photo Interpretation				220
1		12:00-12:50	Tu Th	Ag 116	Harris
		11:00-12:50	W F	Ag 195	
τ2		12:00-12:50	Tu Th	Ag 116	Harris
		1:00-2:50	Tu F	Ag 195	
431b-4	Geomorphology and Air Photo Interpretation				431a
1		12:00-12:50	Tu Th	Ag 224	Harris
		11:00-12:50	W F	Ag 120	
				Ag 224	
τ2		12:00-12:50	Tu Th	Ag 224	Harris
		1:00-2:50	Tu Th	Ag 195	
440-1 to 4	Independent Study				Advanced standing
1	1	To be arranged			
510a-4	Stratigraphy—Sedimentation				410
1		4:00-4:50	MTu F	H8	Miller
		3:00-4:50	W	H8	
510b-4	Stratigraphic Methods				510a
1		4:00-4:50	MTu F	H8	Miller
		3:00-4:50	W	H8	
510c-3	Regional Stratigraphy of North America				410 and 510b
1		4:00-4:50	Tu	H8	Miller
		3:00-5:50	WTh	H8	
515c-4	Mineral Deposits—non metallics				302 and 315
1		2:00-2:50	M W F	H8	Sawatzky
		1:00-2:50	Tu	H8	
520a-4	Advanced Petrology (Igneous)				415
1		11:00-11:50	M W F	T107	Fang
		11:00-12:50	Th	T107	
520c-4	Advanced Petrology (Sedimentary)				415
1		9:00-9:50	MTu Th	T107	Miller
		8:00-9:50	W	T107	

Course No.—Hours		Descriptive Title		Days	Place	Prerequisite
Fall	Winter	Spring	Time			Instructor
528a-3			<b>Micropaleontology</b>			<b>425b</b>
1			To be arranged		H8	Fraunfelter
528b-3			<b>Micropaleontology</b>			<b>528a</b>
1			To be arranged		H8	Utgaard
528c-3			<b>Micropaleontology</b>			<b>528b</b>
1			To be arranged		H8	Utgaard
540-3			<b>Advanced Studies (Structure)</b>			<b>302 and 410</b>
1			5:00-5:50	Tu ThF	Ag 170	Sawatzky
540-3			<b>Advanced Studies (Geochemistry)</b>			
1			1:00-1:50	M W F	T107	Fang
541-1 to 4			<b>Research</b>			<b>To be arranged</b>
599-2 to 6			<b>Thesis</b>			<b>To be arranged</b>

<sup>1</sup> Cross-listed with Botany 414

## GOVERNMENT (GOVT)

231-5			<b>American National Government</b>			
1	1	1	8:00-8:50	MTuWThF	L 131	
2	2	2	10:00-10:50	MTuWThF	M 301	
232-5			<b>State and Local Government</b>			<b>GSB 211b or 231</b>
1			9:00-9:50	MTuWThF	Wham 208	
		1	10:00-10:50	MTuWhTF	Wham 201	
2	1	2	11:00-11:50	MTuWThF	Wham 228	
	2	3	1:00-1:50	MTuWThF	Wham 201	
3	3	4	2:00-2:50	MTuWThF	L 131	
4			4:00-4:50	MTuWThF	Wham 208	
	4		4:00-4:50	MTuWThF	Wham 201	
300-4			<b>American Government</b>			
1			10:00-10:50	MTuWTh	Wham 228	
	1		11:00-11:50	MTu ThF	Wham 201	
		1	12:00-12:50	MTuWTh	Wham 208	
2	2	2	5:45-7:25 pm	Tu Th	L 131	
305-5			<b>Development American Constitution</b>			<b>GSB 211b or 231</b>
1			10:00-10:50	MTuWThF	Comm 111	Turner
		1	9:00-9:50	MTuWThF	M 301	Turner
2	1		2:00-2:50	MTuWThF	Wham 201	Turner
315-3			<b>Administration of Justice</b>			<b>232</b>
1			10:00-10:50	MTu Th	L 131	Alexander
321-1 to 6			<b>Readings</b>			<b>Consent</b>
1	1	1	To be arranged			Alexander
2	2	2	To be arranged			Klingberg
330-2			<b>Illinois Government</b>			<b>232 or consent</b>
1	1	1	10:00-10:50	W F	L 131	Rendleman
340-3			<b>The Legislative Process</b>			<b>GSB 211b or 231</b>
1			12:00-12:50	M W F	Wham 201	Wasby
360-5			<b>Public Administration</b>			<b>GSB 211b or 231</b>
1		1	8:00-8:50	MTuWThF	Wham 201	Turner
2			11:00-11:50	MTuWThF	L 131	Turner
361-3			<b>Problems in Public Administration</b>			<b>360</b>
1			1:00-1:50	M W F	Comm 114	Turner
371-3			<b>Problems of American Foreign Policy</b>			<b>GSB 345</b>
1			8:00-8:50	M W F	Wham 228	Landecker
379-4			<b>Political Parties II</b>			<b>GSB 211b or 231</b>
1			1:00-1:50	MTuWTh	L 131	Baker
380-4			<b>Political Parties</b>			<b>GSB 211b or 231</b>
1		1	1:00-1:50	MTuWTh	L 131	Kahn
398-3			<b>Government and Law</b>			<b>GSB 211b or 231</b>
1			11:00-11:50	MTu ThF	Wham 201	Wasby
		1	10:00-10:50	M WThF	Wham 228	Wasby
406-4			<b>American Chief Executive</b>			<b>231 and 232</b>
1			3:00-3:50	M WThF	Wham 201	Nelson
		1	4:00-4:50	MTuWTh	Wham 201	Nelson
410-3			<b>Labor and Politics</b>			<b>GSB 211b or 231</b>
1			6:30-9:00 pm	Tu	Wham 228	Kahn
415a-3			<b>Political Behavior</b>			<b>231 and 232</b>
1			3:00-3:50	M W F	Wham 208	Paine
415b-3			<b>Political Behavior</b>			
1			3:00-3:50	M W F	Wham 208	Paine
415c-3			<b>Political Behavior</b>			
1			3:00-3:50	M W F	Wham 208	Paine
420-3			<b>Pressure Groups and Politics</b>			<b>GSB 211b or 231</b>
1			2:00-2:50	M W F	Wham 228	Kahn
430-3			<b>Government and National Security</b>			<b>231 or consent</b>
1			10:00-10:50	M W F	M 302	Hanson
438-4			<b>Social Welfare Legislation</b>			
1			9:00-10:50	M W	Wham 228	Hanson
435-4			<b>Government Business</b>			<b>231 or consent</b>
1			9:00-9:50	M W F	Wham 228	Goodsell



Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor	
Fall	Winter	Spring	Time				
436-3 <sup>1</sup>		<b>Government and Labor</b>					
	1	1:00-1:50	M	W	F	Wham 328	Kreider
440-4		<b>Public Personnel Administration</b>				360	or consent
	1	12:00-12:50	MTu	ThF	Wham 206	Sappenfield	
450a-4		<b>Latin American Governments</b>				GSB 392	or consent
	1	12:00-12:50	MTu	ThF	Wham 208	Garner	
450b-4		<b>Latin American Governments</b>					
	1	12:00-12:50	MTu	ThF	Wham 301b	Garner	
450c-4		<b>Latin American Governments</b>					
	1	11:00-11:50	MTu	ThF	Wham 208	Garner	
T451-4		<b>Developing Areas</b>				GSB 390	or consent
	I	4:00-4:50	MTuWTh		Wham 208	Harden-bergh	
452-4		<b>Governments of Africa</b>				GSB 390	
	1	4:00-4:50	MTuWTh		Wham 208	Dale	
453a-4		<b>Soviet Russia</b>				385	
	1	1:00-2:50	Tu	Th	Tech A122	Chou	
453b-4		<b>Soviet Russia</b>				GSB 390	
	1	1:00-2:50	Tu	Th	Wham 305	Chou	
453c-4		<b>Soviet Russia</b>				GSB 390	
	1	2:00-2:50	MTuWTh		Wham 201	Chou	
455-4		<b>Governments of Western Europe</b>				GSB 390	
	1	12:00-12:50	MTuWTh		Wham 201	Kamarasy	
456-4		<b>Great Britain and Empire</b>				GSB 390	
	1	11:00-11:50	MTuWTh		Wham 208	Harden-bergh	
457a-4		<b>Governments of Middle East</b>				GSB 390	
	1	4:00-4:50	M	WThF	Wham 228	Abbass	
457b-4		<b>Governments of Middle East</b>					
	1	4:00-4:50	MTuWTh		L 131	Abbass	
458a-4		<b>Governments of Asia</b>				GSB 390	
	1	9:00-9:50	MTuWTh		Wham 301b	Jacobini	
458b-4		<b>Governments of Asia</b>				GSB 390	
	1	1:00-1:50	MTuWTh		Wham 206	Chou	
458c-4		<b>Governments of Asia</b>				GSB 390	
	1	2:00-3:50	Tu	Th	Tech D131	Harden-bergh	
461-4		<b>Theory of Public Administration</b>				360	
	1	12:00-12:50	MTu	ThF	Wham 201	Goodsell	
462-3		<b>Intergovernmental Relations</b>				231, 232	
	1	9:00-9:50	MTu	F	Wham 201	Baker	
464-3		<b>Regulatory Administration</b>				360	or consent
	1	10:00-10:50	M	W	F	Comm 214	Goodsell
466-3		<b>State Government and Administration</b>				232	
	1	2:00-2:50	M	W	F	M 207	Isakoff
467-4		<b>Municipal Government and Administration</b>				232	
	1	9:00-9:50	MTuW	F	Wham 201	Baker	
470-4 <sup>2</sup>		<b>Urban Planning</b>				Consent	
	1	3:00-3:50	MTuW	F	Ag 158	Guild	
471-4		<b>Organization of American Foreign Policy</b>				GSB 345	
	1	11:00-11:50	MTu	ThF	Wham 208	Klingberg	
472-4		<b>International Organization</b>				GSB 303	
	1	11:00-11:50	MTuWTh		Wham 201	Abbass	
475a-4		<b>International Law</b>				GSB 303	
	1	8:00-8:50	MTuWTh		Comm 214	Jacobini	
475b-4		<b>International Law</b>				GSB 303	
	1	8:00-8:50	MTuWTh		Comm 214	Jacobini	
478-4		<b>International Politics</b>				GSB 303	
	1	8:00-8:50	MTuW	F	Ag 148	Landecker	
484a-4		<b>History of Political Theories</b>				Consent	
	1	10:00-11:50	Tu	Th	Cl 326	Morton	
484b-4		<b>History of Political Theories</b>				Consent	
	1	10:00-11:50	M	W	Cl 326	Morton	
487a-3		<b>American Political Ideas</b>				GSB 385	or 305
	1	1:00-1:50	Tu	ThF	Comm 214	Ridgeway	
487b-3		<b>American Political Ideas</b>				GSB 385	or 305
	1	1:00-1:50	Tu	ThF	Wham 203	Ridgeway	
488a-3		<b>Recent Political Theory</b>				GSB 385	or 390
	1	9:00-11:30		S	Wham 201	Morton	
488b-3		<b>Recent Political Theory</b>					
	1	9:00-11:30		S	Wham 201	Morton	
488c-3		<b>Recent Political Theory</b>					
	1	9:00-11:30		S	Wham 201	Morton	
495a-4		<b>Constitutional Law</b>				305	or consent
	1	4:00-4:50	MTuWTh		Wham 201	Nelson	
495b-4		<b>Constitutional Law</b>				305	or consent
	1	4:00-4:50	MTuWTh		Wham 210	Nelson	

Course	No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time			Instructor
499-4			Scope or Method of Government			
	1		8:00-8:50	M WThF	Wham 208	Kenney
500-4			Methods of Empirical Research			Consent
	1		3:00-4:50	M W	Comm 214	
501-4			Seminar—Contemporary Legislation			340
	1		1:00-2:50	M W	Cl 326	Wasby
502-3			Seminar—In Governmental Problems			Consent
	1		6:30-9:00 pm	M	Cl 326	Kahn
503-3			Seminar—Pressure Groups			420
	1		6:30-9:00 pm	M	Cl 326	Kahn
506-4			Seminar—Political Behavior			415
	1		10:00-11:30	M W	Cl 326	
508-4			Seminar in International Relations			GSB 303
	1		2:00-3:50	Tu Th	Cl 326	Klingberg
510-3			Seminar—State Government			466 or consent
	1		9:00-9:50	MTu Th	Cl 326	Isakoff
511-4			Seminar—Local Government			232
	1		10:00-11:50	Tu Th	Cl 326	Baker
512-4			Seminar—Public Administration			360
	1		3:00-4:50	Tu Th	Ag 174	Sappenfield
515-4			Seminar—Comparative Constitutions			GSB 390
	1		1:00-2:50	M W	Cl 326	Harden-bergh
515-4			Seminar—Comparative Constitutions			458a or consent
	1		9:00-9:50	MTuWTh	Cl 326	Jacobini
515-4			Seminar—Comparative Constitutions			452 or consent
	1		2:00-3:50	M W	Cl 326	Dale
517-4			Seminar—Political Theory			488
	1		2:00-3:50	Tu Th	Cl 326	Morton
520-4			Seminar—American Foreign Policy			371 or 471
	1		10:00-11:50	Tu Th	Cl 326	Kingberg
521-1 to 12			Readings			Consent
	1	1	To be arranged			Alexander
	2	2	To be arranged			Alexander
525-4			Seminar—International Law			475
	1		8:00-8:50	MTuWTh	Cl 326	Jacobini
530-4 to 12			Internship in Public Affairs			Consent
	1	1	To be arranged			
595-2 to 12			Individual Research			Consent
	1	1	To be arranged			
599-2 to 9			Thesis			Consent
	1	1	To be arranged			
600-2 to 16			Dissertation			Consent
	1	1	To be arranged			

<sup>1</sup> Cross-listed with Economics 436.<sup>2</sup> Cross-listed with Geography 470a.

### GUIDANCE AND EDUCATIONAL PSYCHOLOGY (GUID & ED PSYC)

305-4			Educational Psychology			GSB 201c
	1	1	8:00-8:50	TuWThF	Wham 302	
	2	2	6:00-9:00 pm	M	Wham 302	
		3	10:00-10:50	TuWThF	M 215	
	3	3	10:00-10:50	TuWThF	Wham 308	
		4	1:00-1:50	TuWThF	Wham 302	
	4	4	1:00-1:50	TuWThF	Wham 308	
	5	5	4:00-4:50	TuWThF	Wham 302	
412-4			Mental Hygiene			305
	1		6:00-9:00 pm	Tu	Wham 302	Phelps
422a-4			Educational Measurement and Statistics—Introduction			305
	1	1	1:00-1:50	MTuW F	HEc 206	Denzel
		1	1:00-1:50	MTuW F	L 101	Denzel
		2	6:00-9:00 pm	Tu	Wham 302	Clark
422b-4			Educational Measurement and Statistics—Educational			422a
	1		3:00-3:50	MTuWTh	Ag 166	Blumenfeld
			3:00-3:50	MTuWTh	Wham 308	Beggs
		1	3:00-3:50	MTuWTh	Wham 302	Blumenfeld
422c-4			Educational Measurement and Statistics—Advanced			422b, 422a
	1		1:00-1:50	MTuWTh	Wham 328	
426-4			Individual Inventory			422a, 442
	1		6:00-9:00 pm	Th	Wham 228	Meek
			Plus 4 extra sessions			
442-4			Basic Principles of Guidance			
	1		6:00-9:00 pm	W	Wham 302	Yates
			Plus 4 extra sessions			

Course No.—Hours		Descriptive Title		Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time			
		1	6:00–9:00 pm Plus 4 extra sessions	W	Wham 302	Cody
481–4		Seminar on a Selected Topic			Consent of instructor	
		1	To be arranged			Kelly
501–2 to 4		Special Research Problems			Consent of instructor	
	1		To be arranged			Kelly
	2		To be arranged			Campbell
		1	To be arranged			Blumenfeld
		2	To be arranged			Mayer
511–4		Educational Implications of Learning Theories				515
	1		6:00–9:00 pm M Plus 4 extra sessions		Wham 301b	Blumenfeld
515–4		Psychological Aspects of Education				
	1		4:00–4:50 MTuWTh		Wham 328	Cody
520a–4		Educational Statistics and Experimental Design				422b
	1	1	6:00–9:00 pm Tu Plus 4 extra sessions		Wham 308	Beggs
520b–4		Educational Statistics and Experimental Design				520a
		1	3:00–3:50 MTuWTh		Wham 302	Beggs
		1	3:00–3:50 MTuWTh		Wham 308	Beggs
525–4		School Behavior Problems and Their Prevention			Consent of instructor	
	1		1:00–1:50 MTuWTh		Wham 328	Parker
526–4		Techniques in Individual Guidance				
		1	To be arranged			Parker
536a–4		Individual Measurement and Appraisal—Children				
					422a, consent of instructor	
	1	1	1	To be arranged		Amble
	2			To be arranged		Parker
	3			To be arranged		
536b–4		Individual Measurement and Appraisal—Adolescents				
					422a, consent of instructor	
	1		To be arranged			Renzaglia
537a–4		Counseling Theory and Practice			Consent of instructor	
	1		8:00–10:50	S	Wham 229	Meek
	2		2:00–2:50 TuWThF		Wham 229	Meek
	2		To be arranged			Roberts
537b–4		Counseling Theory and Practice				537a
		1	8:00–10:50	S	Wham 312	Meek
541–4		Occupational Information and Guidance				422
	1	1	6:00–9:00 pm	Th	Wham 137	Gallington
543–4		Guidance Through Groups				442
		1	6:00–9:00 pm	W	Wham 228	Mayer
545a–4		Seminar: Problems in Guidance			Consent of department	
	1		To be arranged		Wham 229	
545d–4		Seminar: Test Development				
		1	To be arranged		Wham 229	Beggs
545f–4		Seminar: Pupil Adjustment				
		1	To be arranged			Amble
545g–4		Seminar: Learning and Instruction			Consent of instructor	
		1	To be arranged			Blumenfeld
545h–4		Seminar: Individual Differences				
	1		To be arranged			Mayer
545j–4		Seminar: Organization and Administration				
		1	To be arranged			Cody
545m–4		Seminar: Doctoral Study			Concurrent enrollment with Ed Ad 592	
		1	10:00–11:50	Tu Th	Wham 329	Cody
		1	10:00–11:50	Tu Th	HEc 201	Cody
562a–4		Human Development in Education—Child				
	1		4:00–4:50 MTuWTh		Wham 308	Mayer
562b–4		Human Development in Education—Adolescent				562a
	1		4:00–4:50 MTuWTh		Wham 308	Mayer
565–4		Psychology of Elementary School Subjects				
		1	To be arranged			
575a–1 to 12		Practicum in Counseling			Consent of department, 537a	
	1	1	To be arranged			Yates
575b–1 to 12		Practicum in Elementary Guidance			Consent of department, 537a	
		1	To be arranged			Knewitz
		1	To be arranged			Parker
575c–1 to 12		Practicum in Secondary Guidance			Consent of department, 537a	
		1	To be arranged			Yates
581a–1 to 12		Internship in Counseling				
		1	To be arranged			



## HEALTH EDUCATION (HED)

300-3	Communicable Disease						
	1	1	1	6:30-9:00 pm	W	Arena 121	Rohrer
	2	2	2	6:30-9:00 pm	W	Tech A310	Miller
301-4	Health Concepts, Advanced						
	1		1	9:00-9:50	MTuWTh	Arena 121	
302s-2	Driver Education and Training						Illinois drivers license
	1	1	1	8:00-8:50	MTu ThF	Bldg 56	Aaron
305-4	Principles and Foundations of Health Education						
	1	1	1	10:00-10:50	MTuWTh	Arena 123	Russell
310-4	Home Nursing						
		1		2:00-3:50	Tu Th	HEc 303	
			1	2:00-3:50	Tu Th	HEc 201	
T311-4	Child Development						
	tl			11:00-11:50	MTuWTh	Arena 123	Richardson
312-4	Emotional Health						
	1	1		11:00-11:50	MTuWTh	Arena 123	Richardson
313s-4	Introduction to Safety Education						
	1	1		9:00-9:50	MTu ThF	Arena 123	Bridges
			1	6:30-9:00 pm	M	Bldg 56	Bridges
323s-4	Methods and Materials in Safety Education						
	1		1	1:00-1:50	MTuWTh	Bldg 56	Aaron
325-3	Community Health Problems						
	1			6:00-9:00 pm	Tu	Arena 121	Miller
330-4	Consumer Health						
	tl			12:00-12:50	MTuWTh	To be arranged	
334s-4	First Aid						
	1	1	1	11:00-11:50	M WhTF	Arena 119	Smelser
	2	2	2	12:00-12:50	M WThF	Arena 119	
	3			5:45-7:25 pm	M W	Arena 119	Bridges
		3		5:45-7:25 pm	M Th	Arena 119	Bridges
			3	5:45-7:25 pm	M W	Arena 125	Bridges
350-4	Health Education and Methods for Elementary Teacher						
	1	1	1	2:00-2:50	TuWThF	Arena 119	Phillips
355-4	Introduction to Public Health						
	tl			4:00-5:40 pm	M W	Arena 119	Miller
356-5	Public Health II						Health Science students only
	1			To be arranged			Richardson
365-4	Problems of Health Education in the Public Schools						
	tl			3:00-3:50	TuWThF	To be arranged	
400-4	Health Appraisal of School Children						
	1			6:30-9:00 pm	W	Arena 119	LeFevre
405-3	Methods and Materials in Social Hygiene						
	1			9:00-9:50	MTuWTh	Arena 121	Boydston
443s-4	Methods and Materials in Driver Education						
	1	1	1	6:30-9:00 pm	W	Bldg 56	Aaron
				Plus 4 extra sessions			
450-4	Health Education in the Elementary Schools						
	tl			6:30-9:00 pm	Th	To be arranged	
				Plus 4 extra sessions			
460-4	Methods and Materials in Secondary School Health Education						
	1	1		9:00-9:50	MTuWTh	Arena 119	Vaughan
			1	9:00-9:50	MTuWTh	Arena 123	Vaughan
471-4	Organization and Administration of School Health						
	1			6:30-9:00 pm	Tu	Arena 119	LeFevre
475s-3	Traffic Law Enforcement and Planning						
	1			6:30-9:00 pm	Tu	Bldg 56	Aaron
485-4	International Health						
		1		11:00-11:50	Tu Th	Arena 123	
				11:00-11:50	M W	Ag 216	
488-4	Educational Aspects of Environmental Sanitation						Consent of department
		1		To be arranged			Grissom

Course No.—Hours	Descriptive Title	Prerequisite
Fall Winter Spring Time Days Place Instructor		
489-4	Introduction to Vital Statistics .....	Consent of department Richardson
1	To be arranged	
491-4 to 8	School Health Teaching Methods, Advanced .....	
1	6:30-9:00 pm Tu Plus 4 extra sessions	Arena 121 Casey
500-4	Community Organization for Health Education .....	Consent of department
1	6:30-9:00 pm W Plus special project	To be arranged Grissom
510-4	Construction of the Curriculum in Health Education .....	Consent of department
1	6:30-9:00 pm Tu	Arena 121 Russell
515-4	Review of Current Literature in Health Education, Public Health and Safety Education .....	Consent of department
1	To be arranged	Vaughan
520-4 to 6	Special Projects .....	Consent of department
1 1 1	To be arranged	Boydston
525s-4	Organization, Administration and Supervision of Safety Education .....	Consent of department
1	6:30-9:00 pm Tu Plus 4 extra sessions	Bldg 56 Aaron
526-4	Evaluation in Health Education .....	Consent of department
1	6:30-9:00 pm Tu Plus 4 extra sessions	Tech A120 Casey Richardson
530s-4	Problems and Research in Accident Prevention .....	Consent of department
1	6:30-9:00 pm Tu Plus 4 extra sessions	Bldg 56 Aaron
533a-4	Human Conservation .....	Consent of department
1	6:30-9:00 pm Th	Grissom Arena 119 Richardson
533b-4	Human Conservation .....	Consent of department
1	6:30-9:00 pm Th	Arena 121 Richardson
533c-4	Human Conservation .....	Consent of department
1	6:30-9:00 pm Th	Grissom Arena 121 Richardson
536-4	Professional Preparation in Health Education .....	Consent of department
1	6:30-9:00 pm W	Arena 119 LeFevre
590-4 to 12	Field Internship .....	Consent of department
1	To be arranged	Grissom Richardson
597a-1	Seminar in Health Education .....	Consent of department
1 1 1	To be arranged	Boydston
597b-1	Seminar in Health Education .....	Consent of department
1 1 1	To be arranged	Boydston
597c-1	Seminar in Health Education .....	Consent of department
1 1 1	To be arranged	Boydston
599-3 to 9	Thesis .....	
1 1 1	To be arranged	
600-1 to 16	Dissertation .....	Consent of department
1 1 1	To be arranged	Boydston

## HIGHER EDUCATION (HI ED)

510-4	Higher Education in the United States .....	
1	4:00-5:40 pm M W	Cl 326 Brunner
512-4	Higher Education in Selected Nations .....	
1	6:30-9:15 pm M	Wham 228 Caldwell
513-4	Organization and Administration of Higher Education .....	
1	4:00-5:40 pm Tu Th	Wham 326 Robinson
515-4	College Student Personnel Work: Operations and Policies .....	
1	10:00-11:40 Tu	Comm 122
	10:00-11:40 F	Comm 116 Robinson
516-4	College Student and College Culture .....	
1	9:00-10:50 F	Wham 210
	9:00-10:50 Tu	Wham 208 Robinson
518-4	College Teacher and College Teaching .....	
1	6:30-9:15 pm Th	Wham 210
522-1 to 12	Readings in Higher Education .....	Consent of instructor
1 1 1	To be arranged	Brunner
2 2 2	To be arranged	
3 3 3	To be arranged	Robinson
523-1 to 12	Internship in Higher Education .....	Consent of instructor
523a-1 to 12	College Teaching .....	
1 1 1	To be arranged	Brunner

## 138 HIGHER EDUCATION (HI ED)

Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				
523b-1 to 12	College Student Personnel					
1	1	1	To be arranged			Robinson
523c-1 to 12	College Administration					
1	1	1	To be arranged			
523d-1 to 12	Institutional Research					
1	1	1	To be arranged			
524-2 to 6	Individual Study				Consent of instructor	
1	1	1	To be arranged			Brunner
2	2	2	To be arranged			
3	3	3	To be arranged			Robinson
535-2	Higher Education Seminar I—					
535a-2	Educational Programming in Student Housing					
1			To be arranged			Zimmerman
535b-2	Business Administration of Student Housing					
1			8:00-9:50	Th	Wham 301a	Isbell
535c-2	Student Personnel Group Work					
1			10:00-11:50	M	Comm 122	Prusok
535e-2	Problems in Central Administration					
1			7:00-9:00 pm	W	Wham 210	
535f-2	Business and Fiscal Administration					
1			6:00-8:00 pm	M	Wham 301a	
						Rendleman
535g-2	Academic and Faculty Administration					
1			7:00-9:00 pm	W	Wham 210	
535k-2	Adult and Continuing Education					
1			4:00-5:40	W	Wham 301a	Thomas
535m-2	Institutional Research					
1			4:00-5:40 pm	M	Wham 301a	Brunner
535p-2	Development and Management of Organized Research					
1			4:00-5:40 pm	F	Wham 301a	Robinson
545-3	Higher Education Seminar II—					
545q-3	History of Higher Education					
1			9:00-11:30	S	Wham 203	
545v-3	Federal Government and Higher Education					
1			7:00-9:30 pm	W	Wham 301a	Robinson
551-4	Curriculum Design and Policy					
1			6:30-9:15 pm	Th	Wham 326	
555-4	Philosophy of Higher Education					
1			9:00-11:50	S	Wham 321	
565-4	The Community-Junior College					
1			4:00-5:40 pm	M W	Wham 326	Brunner
578-4	Economic Aspects of Higher Education					
1			6:30-9:15 pm	Th	Wham 328	
589-4 to 6	Advanced Research				Consent of instructor	
1	1	1	To be arranged			
599-1 to 9	Thesis					
1	1	1	To be arranged			
600-1 to 48	Dissertation					
1	1	1	To be arranged			

## HISTORY (HIST)

GSB 300a-3, 300b-3, 300c-3	History of the United States (See General Studies Area B for schedule)					
304a-3	History of the Ancient World (The Near East)					
1			11:00-11:50	MTu Th	M 207	
304b-3	History of the Ancient World (Greece)					
1			11:00-11:50	MTu Th	M 207	
304c-3	History of the Ancient World (Rome)					
1			11:00-11:50	MTu Th	M 207	
308-3	History of Illinois					
1			9:00-9:50	M WTh	M 206	Simon
2			1:00-1:50	M W F	M 302	Allen
312-3	Central Europe in the Nineteenth Century					
1			1:00-1:50	M W F	M 207	O'Day
322a-4	English History (to 1603)					
1			11:00-11:50	MTu ThF	M 206	Cherry
322b-4	English History (1603-1815)					
1			11:00-11:50	MTu ThF	M 206	Cherry
322c-4	English History (Since 1815)					
1			11:00-11:50	MTu ThF	M 206	Cherry
330-3	The Revolution and the Constitution					
1			1:00-1:50	MTu Th	M 207	Ammon
332a-3	Medieval History (Early Middle Ages)					
1			11:00-11:50	MTu Th	M 102	
332b-3	Medieval History (Late Middle Ages)					
1			11:00-11:50	MTu Th	M 102	



Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				
352a-3		History of Latin America (Colonial)				
1		12:00-12:50	M W F	M 207		Gardiner
352b-3		History of Latin America (Independent)				
1		12:00-12:50	M W F	M 207		Gold
352c-3		History of Latin America (World Affairs)				
1		12:00-12:50	M W F	M 207		Gardiner
367a-3		History of the Far East (to 1800)				
1		8:00-8:50	M W F	M 206		Kuo
367b-3		History of the Far East (1800-1905)				
1		8:00-8:50	M W F	M 207		Kuo
GSB 369-3		The Contemporary Far East (See General Studies Area B for schedule)				
372a-3		History of Russia (to 1905)				
1		10:00-10:50	M W F	M 207		O'Day
372b-3		History of Russia (since 1905)				
1		10:00-10:50	M W F	M 207		O'Day
GSB 380a-3		East Europe: Cultural Heritage (See General Studies Area B for schedule)				
401a-3		History of the South (Old)				
1		1:00-1:50	MTu Th	M 207		Ammon
401b-3		History of the South (New)				
1		1:00-1:50	MTu Th	M 102		Ammon
405-3		The American Civil War				
1		8:00-8:50	M W F	M 102		Adams
410-2 to 5		Special Readings in History				Consent of department
		To be arranged				
411a-3		Social and Intellectual History of the United States (to 1830)				
1		12:00-12:50	M W F	M 210		Fladeland
411b-3		Social and Intellectual History of the United States (1830-1900)				
1		12:00-12:50	M W F	M 210		Fladeland
411c-3		Social and Intellectual History of the United States (since 1900)				
1		12:00-12:50	M W F	M 302		Fladeland
414a-3		Intellectual History of Modern Europe				
1		2:00-2:50	MTu Th	M 206		Stromberg
414b-3		Intellectual History of Modern Europe				
1		2:00-2:50	MTu Th	M 206		Stromberg
414c-3		Intellectual History of Modern Europe				
1		2:00-2:50	MTu Th	M 206		Stromberg
415a-3		Early Modern Europe (Renaissance)				
1		6:00-7:25 pm	Tu Th	M 207		Gross
415b-3		Early Modern Europe (Reformation)				
1		4:00-4:50	Tu ThF	M 102		Gross
415c-3		Early Modern Europe				
1		8:00-8:50	Tu ThF	M 102		
417a-3		Advanced English History (The Empire-Commonwealth)				
1		9:00-9:50	M W F	M 206		Cherry
417b-3		Advanced English History (Constitutional)				
1		9:00-9:50	M W F	M 206		Cherry
417c-3		Advanced English History (English Culture in the Age of Colonization)				
1		9:00-9:50	M W	M 207		Cherry
		9:00-9:50		F M 102		
420-3		The French Revolution				
1		4:00-4:50	M W F	M 206		
425a-3		American Colonial History (to 1688)				
1		1:00-1:50	Tu ThF	M 102		
425b-3		American Colonial History (1688-1763)				
1		1:00-1:50	Tu ThF	M 206		
430a-3		Late Modern Europe (Age of Revolution, 1815-1880)				
1		6:00-7:25 pm	Tu Th	M 207		Elwitt
430b-3		Late Modern Europe (1880-1918)				
1		8:00-8:50	M	M 215		Elwitt
		8:00-8:50	Tu Th	HEc 206		
430c-3		Late Modern Europe (Since 1918, the Age of Dictatorship)				
1		8:00-8:50	MTu Th	M 215		
435a-3		Advanced American History (1865-1896)				
1		3:00-3:50	M W F	M 206		Simon
435b-3		Advanced American History (1896-1919)				
1		4:00-4:50	MTu Th	M 206		Allen
435c-3		Advanced American History (1919-1939)				
1		3:00-3:50	M W F	M 206		Allen
435d-3		Advanced American History (1940-Present)				
1		4:00-4:50	M W F	M 206		Allen
440a-3		History of American Diplomacy (to 1913)				
1		12:00-12:50	Tu ThF	M 102		

Course No.— Fall	Hours— Winter Spring	Descriptive Title Time	Days	Place	Prerequisite Instructor
440b-3		<b>History of American Diplomacy (Since 1913)</b>			
1		10:00-10:50	MTu Th	M 206	
442a-3		<b>History of the West</b>			
1		10:00-10:50	M W F	HEc 203	Clifford
442b-3		<b>History of the West</b>			
1		10:00-10:50	M	LS 205	Clifford
		10:00-10:50	W	Comm 122	
		10:00-10:50	F	Wham 210	
442c-3		<b>History of the West</b>			
1		10:00-10:50	M W F	Ag 154	Clifford
448-3		<b>Introduction to History of Southeast Asia</b>			
1		10:00-10:50	M W F	Comm 120	
451-3		<b>Historiography</b>			
1		12:00-12:50	MTu Th	M 206	Ammon
452-3		<b>Historical Research and Thesis Writing</b>			<b>History majors only</b>
1		9:00-9:50	Tu ThF	Comm 214	Allen
2		7:35-9:00 pm	Tu Th	Wham 137	O'Day
t3		3:00-3:50	Tu ThF	To be arranged	Gross
	1	12:00-12:50	M W F	M 202	O'Day
	2	2:00-2:50	M W F	M 202	Fladeland
	3	9:00-9:50	Tu	M 206	
		9:00-9:50	M Th	M 202	
	1	12:00-12:50	M W F	M 202	Allen
	2	11:00-11:50	Tu ThF	M 305a	Evans
	3	4:00-4:50	M W F	M 202	
471a-3		<b>History of Mexico (19th Century)</b>			
1		9:00-9:50	M W	M 102	Gold
		9:00-9:50	F	M 207	
471b-3		<b>History of Mexico (20th Century)</b>			
1		9:00-9:50	Tu ThF	M 207	Gold
473a-3		<b>The Caribbean Area in the 18th and 19th Centuries</b>			
1		10:00-10:50	Tu ThF	M 206	Gold
473b-3		<b>The Caribbean Area in the 20th Century</b>			
1		10:00-10:50	Tu ThF	M 102	Gardiner
500a-5		<b>History Seminar—American</b>			
1		1:00-2:40	M W	M 202	Fladeland
2		3:00-4:40	M W	Wh 212	
	1	3:00-4:40	M W	Wham 301b	Simon
500b-5		<b>History Seminar—European</b>			
1		9:00-10:40	W	HEc 122	Stromberg
		9:00-10:40	F	Wh 107	
2		1:00-2:40	W	M 102	Elwitt
		1:00-2:40	F	Wh 107	
500c-5		<b>History Seminar—Latin American</b>			
1		6:00-8:40 pm	Tu Th	M 305a	Gold
510-2 to 5		<b>Readings in History</b>			<b>Consent of department</b>
		To be arranged			
514-3		<b>Studies in Asian History</b>			
1		9:00-9:50	M W	P 309	Kuo
		9:00-9:50	F	P 308	
515-3		<b>Current United States History and Problems</b>			
1		2:00-3:40	Tu Th	HEc 120	Allen
516-4		<b>Studies in Contemporary Europe</b>			
1		6:00-8:40 pm	M W	M 305a	
519a-3		<b>Age of Jefferson</b>			
1		3:00-4:40	Tu Th	M 210	Ammon
519b-3		<b>Age of Jefferson</b>			
1		3:00-4:50	Tu Th	M 202	Ammon
575-3		<b>Studies in Latin American History</b>			
1		2:00-2:50	Tu ThF	M 102	Gold
598a-1		<b>Teaching History in College</b>			
1		To be arranged			
598b-1		<b>Teaching History in College</b>			
1		To be arranged			
598c-1		<b>Teaching History in College</b>			
1		To be arranged			
599-1 to 9		<b>Thesis</b>			
		To be arranged			

## HOME AND FAMILY (H&amp;F)

227-3		<b>Family Living</b>			
1		2:00-2:50	M Th	HEc 140b	Carpenter
		2:00-2:50	Tu	HEc 203	Carpenter
2		2:00-2:50	M Th	HEc 140b	Carpenter
		2:00-2:50	W	HEc 203	Carpenter

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite	Instructor
Fall	Winter	Spring	Time		
3		2:00–2:50	M Th	HEc 140b	Carpenter
		2:00–2:50	F	HEc 203	Carpenter
1		8:00–8:50	Tu Th	HEc 140b	Carpenter
		8:00–8:50	W	HEc 5	Carpenter
2		8:00–8:50	Tu Th	HEc 140b	Carpenter
		8:00–8:50	F	HEc 5	Carpenter
	1	3:00–3:50	M W	HEc 140b	Carpenter
		3:00–3:50	Th	HEc 203	Carpenter
	2	3:00–3:50	M W	HEc 140b	Carpenter
		3:00–3:50	F	HEc 203	Carpenter
	3	6:00–7:25 pm	Tu Th	HEc 140b	Carpenter
<b>237–3</b>	<b>Child Development</b>				
1		3:00–3:50	Tu F	HEc 140b	Zunich
		3:00–3:50	M	HEc 203	Zunich
2		3:00–3:50	Tu F	HEc 140b	Zunich
		3:00–3:50	W	HEc 203	Zunich
3		3:00–3:50	Tu F	HEc 140b	Zunich
		3:00–3:50	Th	HEc 303	Zunich
1		9:00–9:50	M W	HEc 140b	Zunich
		9:00–9:50	Tu	HEc 203	Zunich
2		9:00–9:50	M W	HEc 140b	Zunich
		9:00–9:50	Th	HEc 203	Zunich
3		9:00–9:50	M W	HEc 140b	Zunich
		9:00–9:50	F	HEc 203	Zunich
<b>300–3</b>	<b>Home Economics for Men</b>				
1		11:00–11:50	M W F	HEc 140b	
	1	11:00–11:50	M W F	HEc 140b	
	1	2:00–2:50	M W F	HEc 203	
<b>301–3</b>	<b>Home Arts and Social Usage</b>				
1		10:00–10:50	M W F	HEc 303	
<b>324–3</b>	<b>Equipment</b>				
1		11:00–11:50	M Th	HEc 5	Johnston
		11:00–12:50	W	HEc 5	
2		11:00–11:50	M Th	HEc 5	Johnston
		11:00–12:50	F	HEc 5	
1		11:00–11:50	M F	HEc 5	Johnston
		11:00–12:50	W	HEc 5	
2		11:00–11:50	M F	HEc 5	Johnston
		11:00–12:50	Th	HEc 5	
<b>331–3</b>	<b>Home Management Lectures</b>				
1		1:00–1:50	M W	HEc 140b	Johnston
		1:00–1:50	F	HEc 203	
2		1:00–1:50	M W	HEc 140b	
		1:00–1:50	Th	HEc 203	
<b>332–4</b>	<b>Home Management Residence</b>			<b>227, 331, F &amp; N 335</b>	
1	1	1	To be arranged	Home Management Apartment	
<b>341–4</b>	<b>Consumer Problems</b>				
1		10:00–10:50	TuW F	HEc 140b	
		10:00–10:50	M	HEc 118	
2		10:00–10:50	TuW F	HEc 140b	
		10:00–10:50	Th	HEc 118	
<b>345a–2</b>	<b>Child Development Practicum</b>				<b>237</b>
1		To be arranged			
<b>345b–3</b>	<b>Child Development Practicum</b>				<b>237</b>
1	1	4:00–4:50	Tu	HEc 116b	
	1	4:00–4:50	M	HEc 116b	
<b>366–3</b>	<b>Family Development</b>			<b>GSB 201–9, 227, or GSB 341</b>	
1		2:00–2:50	M W F	HEc 120	Carpenter
<b>424–4</b>	<b>Selection, Use, and Care of Appliances</b>				<b>324</b>
1		6:30–9:00 pm	M	HEc 5	Johnston
<b>466–2</b>	<b>Practicum in Parent-Child Study</b>				<b>227, 237, or equivalent</b>
1		4:00–5:50	W	HEc 116b	Carpenter
<b>481–2 to 6</b>	<b>Readings</b>			<b>Consent of instructor and chairman</b>	
1	1	1	To be arranged		Carpenter
					Johnston
					Zunich
<b>500–4</b>	<b>Research Methods</b>				
1		6:30–9:00 pm	M	HEc 116b	Zunich
<b>540–4</b>	<b>Trends in Consumer Problems</b>			<b>341, or equivalent</b>	
1		6:30–9:00 pm	M	HEc 5	Johnston
<b>562–4</b>	<b>Child Development Through Home and School</b>				
1		6:30–9:00 pm	W	HEc 120	Zunich
<b>566–4</b>	<b>Interpersonal Relationships Within the Family</b>			<b>227 or GSB 341, 237, 331</b>	
1		6:30–9:00 pm	W	HEc 120	Carpenter



Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
572-2 to 8		Special Problems			Consent of instructor and chairman
1	1	1	To be arranged		Carpenter Johnston Zunich
599-5 to 9		Thesis			Consent of instructor and chairman
1	1	1	To be arranged		Carpenter Johnston Zunich

**Home Economics Honors Courses (HEc)**

387-2 to 4		Special Problems—Honors			Consent of department
1	1	1	To be arranged		
388-2 to 4		Research and Investigation—Honors			Consent of department
1	1	1	To be arranged		

<sup>1</sup> Plus 2 hours to be arranged between 9:00 and 12:00 or 1:00 and 4:00, MTuWThF

<sup>2</sup> Plus 3 consecutive hours to be arranged between 9:00 and 12:00 or 1:00 and 4:00, MTuWThF

**HOME ECONOMICS EDUCATION (HEED)**

111-2		Home Economics Orientation			
1		4:00-4:50	M	HEc 120	
		4:00-4:50	Tu Th	HEc 140b	Quigley Rhodes
2		4:00-4:50	W	HEc 120	
		4:00-4:50	Tu Th	HEc 140b	Quigley Rhodes
3		2:00-2:50	W	HEc 120	
		4:00-4:50	Tu Th	HEc 140b	Quigley Rhodes
4		4:00-4:50	F	HEc 120	
		4:00-4:50	Tu Th	HEc 140b	Quigley Rhodes
5		1:00-1:50	W	HEc 120	
		4:00-4:50	Tu Th	HEc 140b	Quigley Rhodes
306-2		Seminars and Readings in Home Economics Education			
	1	4:00-4:50	Tu Th	HEc 303	Keenan
309a-3		Program Planning in Home Economics			
	1	9:00-9:50	M WTh	HEc 303	Fults
309b-3		Methods of Teaching in Home Economics			
	1	8:00-8:50	M W F	HEc 120	Rhodes
310-4		Evaluation and Adult Education			
	1	1	To be arranged	HEc 133	Morgan
313-2 to 4		Special Problems			
	1	1	To be arranged	HEc 133	
370-5		History, Development and Principles of Extension Work			
	1	8:00-8:50	MTuWThF	HEc 120	Morgan
415-1		Introduction to Graduate Study			
	1	4:00-4:50	Tu	HEc 120	Fults
481-2 to 6		Readings			Consent of instructor and chairman
	1	1	To be arranged	HEc 133	
500-4		Research Methods			Guid 422b, or consent of instructor
	1	6:00-8:30 pm	Tu	HEc 120	Fults
505-4		Home Economics in Secondary Schools			
	1	6:00-8:30 pm	Tu	HEc 120	Campbell
506-4		Evaluation Procedures in Home Economics			
	1	6:00-8:30 pm	Tu	HEc 120	Fults
510-4		Supervision of Home Economics			
	1	9:00-11:30	S	HEc 120	Campbell
510a-1 to 4		Practicum in Supervision			510
	1	1	To be arranged	HEc 133	Campbell
515-4		Trends in Home Economics Education			
	1	8:30-11:00	S	HEc 120	Keenan
516-4		Advanced Methods of Teaching Home Economics			
	1	9:00-11:30	S	HEc 120	Keenan
517-4		Methods and Materials for Adult Programs in Home Economics			
	1	6:30-9:00 pm	Th	HEc 120	Rhodes
572-2 to 8		Special Problems			
	1	1	To be arranged	HEc 133	
573-1 to 6		Seminar: Research in Home Economics			Consent of instructor
	1	1	To be arranged	HEc 133	

Course No.—Hours	Descriptive Title	Prerequisite
Fall Winter Spring	Time Days Place	Instructor

599-5 to 9	Thesis	
1	1	1 To be arranged
600-3 to 48	Dissertation	
1	1	1 To be arranged

## Home Economics Honors Courses

387-2 to 4	Special Problems	
1	1	1 To be arranged
388-2 to 4	Research and Investigation	
1	1	1 To be arranged

## INDUSTRIAL TECHNOLOGY (IT)

300a-4	Plastic Materials and Processes						GSA 101c or Chem 111a
1		1:00-2:50	MTu	ThF		Tech D30	
300b-4	Plastic Materials and Processes						
1		6:00-8:00 pm		W		Tech D131	
		8:00-9:00 pm		W		Tech D30	
		Plus 4 extra class meetings					
304a-3	Architectural Drafting and Design						
1	1	6:00-9:00 pm	Tu	Th		Tech A307	
304b-3	Architectural Drafting and Design						304a
1		6:00-9:00 pm	M	W		Tech A307	
304c-3	Architectural Drafting and Design						304b
1		6:00-9:00 pm	Tu	Th		Tech A307	
305a-3	Technical Illustration						Tech 101a
1	1	1:00-2:50	M	W	F	Tech A307	
305b-3	Technical Illustration						305a
1		1:00-2:50	M	W	F	Tech A307	
306a-3	Industrial Design						Tech 101a
1	1	8:00-9:50	M	W	F	Tech A319	
306b-3	Industrial Design						306a
1		10:00-11:50	M	W	F	Tech A319	
306c-3	Industrial Design						306b
1	1	1	To be arranged				
309a-4	Graphic Arts						Tech 101a
1		1:00-2:50	M	W	F	To be arranged	
312a-3	Wood Products and Processes						
1	1	1	8:00-9:50	Tu	Th S	To be arranged	
2	2		10:00-11:50	M	W	F	To be arranged
312b-3	Wood Products and Processes						312a
1	1	1	1:00-2:50	M	W	F	To be arranged
312c-3	Wood Products and Processes						312b
1		1	3:00-4:50	M	W	F	To be arranged
314a-3	Casting and Metal Forming Processes						Math 111a or equivalent
1		9:00-9:50	M	W		Tech A320	
		8:00-9:50			F	Tech D14b	
2		9:00-9:50	M	W		Tech A320	
		3:00-4:50			F	Tech D14b	
314b-3	Casting and Metal Forming Processes						
1		9:00-9:50	M	W		Tech D131	
		8:00-9:50			F	Tech D14b	
2		9:00-9:50	M	W		Tech D131	
		3:00-4:50			F	Tech D14b	
316a-3	Industrial Coverings						
1		6:00-9:00 pm	Tu	Th		To be arranged	
318a-3	Industrial Welding						
1		6:00-9:00 pm	Tu	Th		To be arranged	
	1	1:00-2:50	M	W	F	To be arranged	
318b-3	Industrial Welding						
1		6:00-9:00 pm	Tu	Th		To be arranged	
318c-3	Industrial Welding						
	1	9:00-9:50	M	W		Tech D131	
		8:00-9:50			F	Tech D14b	
	2	9:00-9:50	M	W		Tech D131	
		3:00-4:50			F	Tech D14b	
320a-4	Industrial Crafts						
1	1	5:45-9:00 pm	M	W		To be arranged	
320b-4	Industrial Crafts						
1		5:45-9:00 pm	Tu	Th		To be arranged	
320c-4	Industrial Crafts						
1		5:45-9:00 pm	M	W		To be arranged	
322a-3	Machining of Metals						
1	1	1	8:00-9:50	M	W	F	Tech A30
2	2		6:00-9:00 pm	Tu	Th		Tech A30

## 144 INDUSTRIAL TECHNOLOGY (IT)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
322b-3	<b>Machining of Metals</b> .....						322a
1			10:00-11:50	M	W	F	Tech A30
322c-3	<b>Machining of Metals</b> .....						322b
1			10:00-11:50	M	W	F	Tech A30
325a-3	<b>Metal Removal Processes</b> .....						322a or consent of instructor
1			8:00-8:50	Tu	Th		Tech A310
			9:00-10:50	Tu			Tech D14b
2			8:00-8:50	Tu	Th		Tech A310
			9:00-10:50		Th		Tech D14b
325b-3	<b>Metal Removal Processes</b> .....						322a or consent of instructor
1			8:00-8:50	Tu	Th		Tech A308
			9:00-10:50	Tu			Tech D14b
2			8:00-8:50	Tu	Th		Tech A308
			9:00-10:50		Th		Tech D14b
325c-3	<b>Metal Removal Processes</b> .....						322a or consent of instructor
1			8:00-8:50	Tu	Th		Tech A310
			9:00-10:50	Tu			Tech D14b
2			8:00-8:50	Tu	Th		Tech A310
			9:00-10:50		Th		Tech D14b
327a-3	<b>Materials, Processes and Fabrication of Metals</b> .....						
1	1		3:00-4:50	M	W	F	To be arranged
2			6:00-9:00 pm	M	W		To be arranged
327b-3	<b>Materials, Processes and Fabrication of Metals</b> .....						
1	1		8:00-9:50	Tu	Th	S	To be arranged
332a-3	<b>Power Mechanics</b> .....						
1			3:00-4:50	M	W	F	To be arranged
332b-3	<b>Power Mechanics</b> .....						
1			6:00-9:00 pm	Tu	Th		To be arranged
337a-3 <sup>1</sup>	<b>Manufacturing Processes</b> .....						
1			10:00-10:50	M	W	F	Tech D131
			11:00-11:50	Tu			Tech D14b
2			10:00-10:50	M	W	F	Tech D131
			11:00-11:50		Th		Tech D14b
3			10:00-10:50	M	W	F	Tech D131
			4:00-4:50		Th		Tech D14b
337b-3 <sup>1</sup>	<b>Manufacturing Processes</b> .....						
1			10:00-10:50	M	W	F	Tech D131
			11:00-11:50	Tu			Tech D14b
2			10:00-10:50	M	W	F	Tech D131
			11:00-11:50		Th		Tech D14b
3			10:00-10:50	M	W	F	Tech D131
			4:00-4:50		Th		Tech D14b
337c-3 <sup>1</sup>	<b>Manufacturing Processes</b> .....						GSA 101c
1			3:00-3:50	M	W	F	Tech D131
341a-3	<b>Maintenance, Layout and Material Handling</b> .....						312a, 327a
1			8:00-9:50	M	W	F	To be arranged
341b-3	<b>Maintenance, Layout and Material Handling</b> .....						Junior standing
1			3:00-3:50	M	W	F	Tech D131
341c-3	<b>Maintenance, Layout and Material Handling</b> .....						Junior standing
1			8:00-8:50	M	W	F	Tech D131
342a-3	<b>Industrial Finishes</b> .....						312a, 327a
1			10:00-11:50	M	W	F	To be arranged
343a-3	<b>Electricity-Electronics</b> .....						
1	1	1	10:00-11:50	M	W	F	Tech D106
2	2		1:00-2:50	M	W	F	Tech D106
3			6:00-9:00 pm	Tu	Th		Tech D106
343b-3	<b>Electricity-Electronics</b> .....						343a
1	1		8:00-9:50	M	W	F	Tech D106
343c-3	<b>Electricity-Electronics</b> .....						343b
1			3:00-4:50	M	W	F	Tech D106
351a-3 <sup>1</sup>	<b>Product Control</b> .....						Tech 101b
1			12:00-12:50	M	W	F	Tech A307
351b-3 <sup>1</sup>	<b>Product Control</b> .....						Tech 101b
1			12:00-12:50	M	W	F	Tech A307
351c-3 <sup>1</sup>	<b>Product Control</b> .....						Tech 101b
1			12:00-12:50	M	W	F	Tech A307

<sup>1</sup> Cross-listed with Engineering Technology.

## INSTRUCTIONAL MATERIALS (IM)

301-2	<b>The Instructional Materials Approach to Learning</b> .....						
1			10:00-10:50	M	W		Wham 308 Butts
	1		10:00-10:50	M	W		Comm 122 Butts



Course No.—Hours	Descriptive Title		Days	Place	Prerequisite	Instructor
	Fall	Winter Spring				
308-4	Introduction to Cataloging					
1			11:00-11:50	MTuWTh	Wham 327	Cox
2			12:00-12:50	MTuWTh	Wham 327	Cox
	1		6:30-9:00 pm	M	Wham 327	Cox
		1	10:00-10:50	MTuWTh	Wham 327	Cox
400-2	Library Research Methods					
1			10:00-10:50	M W	Wham 327	Evans
403-4	School Library Functions and Management					
1			1:00-1:50	MTuWTh	Wham 327	Evans
	1		11:00-11:50	MTuWTh	Wham 327	Fletcher
		1	9:00-11:30	S	Wham 329	Evans
405-4	Library Materials for Children					
1	1	1	8:00-8:50	MTuWTh	Wham 327	Fletcher
406-4	Library Materials for Adolescents					
1			9:00-11:30	S	Wham 327	Fletcher
	1		1:00-1:50	MTuWTh	Wham 327	Fletcher
		1	11:00-11:50	MTuWTh	Wham 327	Fletcher
407-4	Basic Reference Sources					
1			9:00-9:50	MTuWTh	Wham 329	Cox
	1		10:00-10:50	MTuWTh	Wham 327	Cox
		1	12:00-12:50	MTuWTh	Wham 329	Evans
410-4	Public Library Administration					
	1		6:30-9:00 pm	M	Wham 327	Cox
413-4	Cataloging of Non-Book Materials					
1			12:00-12:50	MTuWTh	Wham 329	Cox
417-4 <sup>1</sup>	Audio-Visual Methods in Education					
1			9:00-9:50	W	L 161	
			9:00-9:50	MTu Th	Wham 327	Woelflin
	1		9:00-9:50	W	L 161	
			9:00-9:50	MTu Th	Wham 327	Ingli
		1	9:00-9:50	W	L 161	
			9:00-9:50	MTu Th	Wham 327	
2			9:00-9:50	W	L 161	
			1:00-1:50	MTu Th	Cl 25	
	2		9:00-9:50	W	L 161	Rust
			2:00-2:50	MTu Th	L 101	
		2	9:00-9:50	W	L 161	Rust
			10:00-10:50	MTuW	L 101	
3		3	9:00-9:50	W	L 161	Rust
			12:00-12:50	MTuW	L 101	
	3		9:00-9:50	W	L 161	Evans
			12:00-12:50	MTuW	L 101	
4			9:00-9:50	W	L 161	Scholl
			2:00-2:50	TuWTh	Wham 327	
	4		9:00-9:50	W	L 161	Evans
			2:00-2:50	MTuW	Wham 327	
		4	9:00-9:50	W	L 161	Scholl
			2:00-2:50	MTuW	Wham 327	
5			9:00-9:50	W	L 161	Evans
			3:00-3:50	TuWTh	Wham 327	
	5		9:00-9:50	W	L 161	Scholl
			3:00-3:50	MTuW	Wham 327	
		5	9:00-9:50	W	L 161	
			3:00-3:50	TuWTh	Wham 327	
6			9:00-9:50	W	L 161	Ingli
			4:00-4:50	TuWTh	Wham 327	
	6		9:00-9:50	W	L 161	Butts
			4:00-4:50	MTuW	Wham 327	
		6	9:00-9:50	W	L 161	
			4:00-4:50	TuWTh	Wham 327	
7			7:35-9:00 pm	Tu Th	Wham 327	Scholl
		7	7:35-9:00 pm	Tu Th	Wham 327	Ingli
			7:35-9:00 pm	Tu Th	Wham 327	Winsor
420-4	School Library Activities and Practices					
1			10:00-10:50	MTuWTh	Wham 327	Fletcher
		1	1:00-1:50	MTuWTh	Wham 327	Fletcher
440-2	Photography for Teachers					
1		1	2:00-2:50	M W	T169	Butts
445-4	Preparation of Teacher-Made Materials					
1			8:00-9:50	MTuWTh	Wham 202	Zalatimo
	1	1	8:00-9:50	MTuWTh	Wham 202	Scholl
448-4	Supervision and Administration of an Audio-Visual Program					
						417
		1	5:45-7:25 pm	Tu Th	Wham 329	Ingli
458-4	The Medium of the Motion Picture					
	1		9:00-11:30	S	Wham 327	Wendt
470-4	Programming Automated Instruction					
1			5:45-7:25 pm	Tu Th	Wham 329	Woelflin

## 146 INSTRUCTIONAL MATERIALS (IM)

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
510-4		Mass Communication in Education			
1		6:30-9:00 pm	M	Wham 327	Butts
514-4		Survey of Research and Development in Instructional Materials			
1		7:35-9:00 pm	Tu Th	Wham 208	Rust
523-4		Seminar in Junior College Librarianship			
1		11:00-11:50	Tu	L 101	
		11:00-11:50	W	Wham 201	
		11:00-11:50	Th	Wham 326	
		11:00-11:50	F	Wham 301b	
530-4		History of Books and Libraries			
1		To be arranged		Library Rare Book Rm.	Bushee
546-4		Integration of AV Methods in Classroom			417
1		6:30-9:00 pm	W	Wham 327	Butts
547-4		School Film and Filmstrip Production			
1		3:00-4:50	MTuWTh	T169	Butts
549-4		Visual Learning			
1		9:00-11:30		S Wham 329	Wendt
560-4		Seminar in Instructional Materials			
1		7:35-9:00 pm	Tu Th	Wham 205	
576-2 to 8		Problems in Instructional Materials			
1	1	1	To be arranged		Wendt
599-2 to 9		Thesis			
1	1	1	To be arranged		Wendt

<sup>1</sup> Wham 327 will be used for student previews of films for Instructional Materials 417 all day each Friday.

## JOURNALISM (JRNL)

100-1		Current Events							
1		10:00-10:50		F	L 201			Ford	
	1	10:00-10:50		F	HEc 140b			Ford	
		1	10:00-10:50	F	L 231			Ford	
101-3		Introduction to Journalism I							
1		8:00-8:50	M	W	F	L 231		Clayton	
	1	8:00-8:50	M	W	F	L 231		Clayton	
		1	8:00-8:50	M	W	F	L 231	Clayton	
102-3		Introduction to Journalism II							
1		11:00-11:50	M	W	F	L 101		Clayton	
	1	11:00-11:50	M	W	F	L 101		Clayton	
		1	11:00-11:50	M	W	F	L 101	Clayton	
103-3		The News						101 and 102	
1		11:00-11:50	Tu	Th		T27		Frazer	
		2:00-3:50		Th		T27			
2		12:00-12:50	Tu	Th		T27		Frazer	
		2:00-3:50		W		T27			
t3		4:00-4:50	M	W		T27			
		4:00-5:50			F	T27			
	1	11:00-11:50	Tu	Th		T27		Frazer	
		1:00-2:50			F	T27			
	2	12:00-12:50	Tu	Th		T27		Frazer	
		1:00-2:50		W		T27			
	t3	11:00-11:50		W		T27			
		1:00-1:50		Th		T27			
		11:00-12:50			S	T27			
		1	10:00-10:50	M		F	T27	Frazer	
		12:00-1:50			Th	T27			
	2	12:00-12:50	M		F	T27		Frazer	
		12:00-1:50		W		T27			
	t3	11:00-11:50		W		T27			
		12:00-12:50	Tu			T27			
		1:00-2:50			F	T27			
201-3		Newswriting and Editing I						103	
1	1	1	9:00-9:50	W		T48		Matheson	
			(Laboratory sessions to be arranged)						
	2	2	2	9:00-9:50	Th	T48		Matheson	
			(Laboratory sessions to be arranged)						
202-3		Newswriting and Editing II						103	
1	1	1	10:00-10:50	M	W	T27		Fought	
			10:00-11:50		F	T27			
297-3		Introduction to Magazine Journalism							
	1	2:00-2:50	M	W	F	Tech A120		Ford	
303-3		Newswriting and Editing III						202	
1	1	1	11:00-11:50	M		T27		Fought	
			(Laboratory sessions to be arranged)						

Course No.—Hours		Descriptive Title		Days		Place		Prerequisite Instructor
Fall	Winter	Spring	Time					
330-3			<b>Editorial Writing</b>					<b>303</b>
1	1	1	10:00-10:50	Tu	Th S	Ag 218		Clayton
345-3			<b>History of Journalism</b>					
	1		11:00-11:50	M	W F	M 210		Ford
346-3			<b>Comparative Journalism</b>					
1			11:00-11:50	M	W F	Pierce 130		Ford
350-3			<b>Community Newspaper</b>					
1			1:00-1:50	M	W F	T27		Rice
351-3			<b>Community Newspaper Management</b>					<b>350</b>
	1		3:00-3:50	M	W F	T27		Rice
369-3			<b>Magazine Writing</b>					<b>297</b>
1			2:00-2:50	M	W F	Ag 218		Ford
370-3			<b>Principles of Advertising</b>					
1	1	1	9:00-9:50	M	W F	Ag 220		Schick
371-3			<b>Advertising Salesmanship</b>					<b>370 and 202</b>
1			8:00-8:50	M	W F	T27		Epperheimer
		1	3:00-3:50	M	W F	T27		Epperheimer
372-5			<b>Advertising Copy Layout and Production</b>					<b>370 and 202</b>
	1		4:00-4:50	M	W F	T27		Hileman
			3:00-3:50	Tu	Th			
		1	4:00-4:50	MTuWThF		T27		Schick
373-3			<b>Advertising Media and Markets</b>					<b>370 and 202</b>
1			11:00-11:50	M		Bailey 130		
			11:00-11:50		W F	Comm 214		Schick
	1		11:00-11:50	M		Bailey 130		
			11:00-11:50		W F	Ag 218		Schick
374-3			<b>Advertising Policies and Problems</b>					<b>370 and 202</b>
	1		2:00-2:50	M	W F	Ag 174		Hileman
		1	2:00-2:50	M	W F	Ag 218		Hileman
376-4			<b>Advertising Campaigns</b>					<b>370 and 202</b>
1			1:00-1:50		Th	Ag 220		Hileman
			Other hours to be arranged					
		1	1:00-1:50		Th	Ag 220		Hileman
			Other hours to be arranged					
382-3			<b>Newspaper Promotion and Circulation</b>					<b>101, 102, 103 or 345 and 346</b>
	1		8:00-8:50	Tu	Th S	Ag 218		Rice
383a-3			<b>Newspaper Production Management</b>					
1			9:00-9:50	Tu	Th S	T27		Lawhorn
	1		9:00-9:50	Tu	Th S	T27		Lawhorn
		1	9:00-9:50	Tu	Th S	T27		Lawhorn
383b-3			<b>Newspaper Production Management</b>					<b>383a</b>
1			9:00-9:50	M	W F	T27		
	1		9:00-9:50	M	W F	T27		
		1	9:00-9:50	M	W F	T27		
390-3			<b>Advanced Reporting</b>					<b>303</b>
1			10:00-10:50	Tu	Th S	T27		
	1		2:00-2:50	Tu	Th	T27		
			10:00-10:50		S	T27		
		1	2:00-2:50	Tu	Th	T27		
			10:00-10:50		S	T27		
391-3			<b>Feature Writing</b>					<b>303</b>
1			11:00-11:50	Tu		Ag 174		
			11:00-11:50		Th	Ag 216		Matheson
	1		11:00-11:50	Tu	Th	Ag 170		Matheson
		1	11:00-11:50	Tu	Th	Ag 218		Matheson
			(One hour additional by arrangement)					
392-3			<b>Reporting Special Events</b>					<b>390</b>
	1		1:00-1:50	M	W F	Ag 220		
393-3			<b>Publicity Methods</b>					
1			8:00-8:50	Tu	Th S	T27		Clayton
	1		8:00-8:50	Tu	Th S	T27		Clayton
		1	8:00-8:50	Tu	Th S	T27		Clayton
397-3			<b>Special Publications</b>					<b>297, 369, 398</b>
	1		11:00-11:50	Tu	Th	Ag 220		
			2:00-2:50		W	Ag 220		Ford
398-3			<b>Magazine Production and Layout</b>					<b>297</b>
1			10:00-10:50	Tu	Th	T27		
			1:00-2:50	M		T27		Ford
399-1			<b>Senior Seminar</b>					<b>Senior standing</b>
1			12:00-12:50		W	Ag 118		Frazer
	1		12:00-12:50		W	Ag 118		Frazer
		1	12:00-12:50		W	Ag 118		Frazer
401-3			<b>International Journalism</b>					
	1		10:00-11:50	Tu	Th	Tech A222		
422-3			<b>Teaching High School Journalism</b>					<b>Junior standing</b>
1			1:00-1:50	M	W F	Ag 218		Rice



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite
Fall	Winter	Spring	Time				Instructor
431-3			<b>Public Relations</b>				<b>Senior standing</b>
	1		8:00-8:50	M	W	F Ag 174	Lawhorn
432-3			<b>Communications Agencies and Public Opinion</b>				<b>Senior standing</b>
	1		7:00-8:50 pm	M	W	Ag 220	Long
433-3			<b>Measurement of Public Opinion</b>				<b>Senior standing</b>
	1		12:00-12:50	M	W	F T27	Rucker
			2:00-3:50	Tu		T27	
		1	8:00-8:50	M	W	F T27	Rucker
			1:00-2:50			F T27	
440-3			<b>Content Analysis</b>				
	1		9:00-9:50	M		Wh 203	
			9:00-9:50		W	F M 202	Rucker
442-3			<b>Law of Journalism</b>				<b>Senior standing</b>
	1		9:00-9:50	M	W	F HEc 203	Gruny
479-3			<b>Role of Advertising in our Society</b>				<b>Senior standing</b>
	1		9:00-9:50	Tu		Ag 168	
			8:00-9:50		Th	Ag 168	Hileman
495-3			<b>Book Reviewing</b>				
	1		1:00-1:50	M	W	Library 219	Ford
501-3			<b>Literature of Journalism</b>				
	1		7:00-9:50 pm	M		Ag 218	Long
		1	7:00-9:50 pm	M		Ag 218	Long
530-2			<b>Seminar in Press Freedom</b>				
	1		10:00-11:50		Th	Library 108	McCoy
532-4			<b>Seminar in Public Opinion and Propaganda</b>				
	1		2:00-3:50	Tu	Th	Ag 218	
533-1 to 3			<b>Research Problems in Journalism</b>				
	1		To be arranged				Rucker
		1	To be arranged				Rucker
		1	To be arranged				Rucker
540-3 <sup>1</sup>			<b>Philosophy of Journalism</b>				
	1		8:00-9:50		Th	HEc 211	Moore
545-3			<b>Studies in Journalism History</b>				
	1		3:00-4:50	Tu	Th	Ag 218	Hart
590-3			<b>Seminar in Journalism History</b>				
	1		3:00-4:50	Tu	Th	Ag 218	Hart
595-0			<b>Graduate Seminar</b>				
	1		4:30		F	Ag 218	Rucker
		1	4:30		F	Ag 218	Rucker
		1	4:30		F	Ag 218	Rucker
599-1 to 8			<b>Thesis</b>				
	1		To be arranged				Rucker
		1	To be arranged				Rucker
		1	To be arranged				Rucker
600-1 to 16			<b>Dissertation</b>				
	1		To be arranged				Rucker
		1	To be arranged				Rucker
		1	To be arranged				Rucker

<sup>1</sup> Cross-listed with Philosophy.

## MANAGEMENT (MGT)

170-4			<b>Introduction to Business Administration</b>				
	1		8:00-8:50	MTu	ThF	Wham 308	Rehn
		1	10:00-10:50		Tu ThFS	Wham 308	Rehn
		1	9:00-9:50	MTu	ThF	Wham 302	Shell
271-4			<b>Business Writing</b>				<b>GSD 101</b>
	1		9:00-9:50	MTu	ThF	LS 205	Bateman
		1	9:00-9:50	MTu	ThF	Tech A208	Fohr
		1	1:00-1:50		TuWThF	Ag 148	Bateman
340-4			<b>Business Organization and Management</b>				<b>Junior standing or consent of instructor</b>
	1		8:00-8:50	MTu	ThF	L 141	Shell
	2		4:00-4:50	MTu	ThF	L 161	Rehn
		1	8:00-8:50	MTu	ThF	L 141	Bedwell
		2	4:00-4:50	MTu	ThF	L 161	Shell
		1	8:00-8:50	MTu	ThF	L 141	Shell
		2	4:00-4:50	MTu	ThF	L 161	Patrick
350-4			<b>Management Control Systems</b>				<b>340 or consent of instructor</b>
	1		8:00-8:50	M	WThF	M 302	Cross
361-4			<b>Business Report Writing</b>				<b>GSD 101</b>
	1		1:00-1:50		TuWThF	Wham 203	Fohr
	2		11:00-11:50	MTu	ThF	Ag 220	Bateman
	3		3:00-3:50	M	W	Ag 168	
			3:00-3:50		Tu Th	Tech A210	
	4		12:00-12:50	MTuW	F	Ag 220	

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall Winter Spring Time				
1	9:00-9:50	TuWThF	HEc 106	Bateman
2	12:00-12:50	TuWThF	Ag 220	Bateman
3	10:00-10:50	MTu ThF	M 203	
4	11:00-11:50	MTuW F	Wham 203	
1	3:00-3:50	MTu ThF	Comm 120	Fohr
2	11:00-11:50	TuWThF	M 102	Bateman
3	9:00-9:50	MTuW F	Ag 148	
4	10:00-10:50	TuWThF	HEc 120	
<b>380-4</b>	<b>Production Management</b>			<b>340 or consent of instructor</b>
1	9:00-9:50	M WThF	M 207	Siemens
2	2:00-2:50	TuWThF	L 221	Siemens
1	3:00-3:50	TuWThF	M 201	Siemens
2	11:00-11:50	M WThF	M 201	Rehn
1	4:00-4:50	TuWThF	L 231	Rehn
<b>382-4</b>	<b>Time and Motion Study</b>			
1	2:00-2:50	TuWThF	LS 323	Siemens
<b>385-4</b>	<b>Personnel Management</b>			<b>340 or consent of instructor</b>
1	10:00-10:50	MTu ThF	M 215	Patrick
2	5:45-7:25 pm	Tu Th	L 101	McCarty
1	5:45-7:25 pm	Tu Th	L 101	McCarty
2	10:00-10:50	MTu ThF	Wham 302	Patrick
<b>385-4</b>	<b>Personnel Management</b>			<b>340 or consent of instructor</b>
1	1:00-1:50	MTuW F	L 101	Westberg
2	5:45-7:25 pm	Tu Th	L 231	McCarty
<b>430-4</b>	<b>Human Relations and Organizational Behavior</b>			<b>340</b>
1	1:00-1:50	MTuW F	M 210	Hunt
<b>431-4</b>	<b>Organization Theory and Practice</b>			<b>340 or consent of instructor</b>
1	11:00-11:50	M WThF	M 301	Hunt
<b>440-4</b>	<b>The Management Process</b>			<b>Restricted to MBA students</b>
1	8:00-8:50	MTuWThF	HEc 306	W. Greenwood
<b>451-4</b>	<b>Methods of Quantitative Analysis</b>			<b>MBA student or consent of instructor</b>
1	4:00-4:50	TuWThF	Tech D131	F. Greenwood
1	4:00-4:50	M WThF	Tech D131	F. Greenwood
<b>452-4</b>	<b>Business Operations Analysis</b>			<b>340 and 451 or consent of instructor</b>
1	10:00-10:50	MTu ThF	M 310	Siemens
<b>455-4</b>	<b>Programming for Digital Computers</b>			<b>Consent of instructor</b>
1	12:00-12:50	MTu ThF	Wham 203	F. Greenwood
<b>460-4</b>	<b>Work Measurement for Wage and Salary Control</b>			<b>385</b>
1	8:00-8:50	MTu ThF	Ag 154	Patrick
<b>461-4</b>	<b>Management Decision Making</b>			<b>Senior standing or consent of instructor</b>
1	2:00-2:50	TuWThF	HEc 303	W. Greenwood
<b>472-4</b>	<b>Small Business</b>			
1	8:00-8:50	MTu ThF	Wham 203	Bedwell
<b>474-4</b>	<b>Management Responsibility in Society</b>			<b>340</b>
1	2:00-2:50	M WThF	Comm 114	W. Greenwood
<b>479-4</b>	<b>Problems in Business and Economics</b>			<b>Senior standing</b>
1	10:00-11:50	M Th	HEc 120	Shull
2	3:00-4:50	Tu Th	HEc 201	Shull
1	12:00-1:50	Tu Th	HEc 106	Shull
1	7:35-9:00 pm	Tu Th	Ag 220	Shull
<b>481-4</b>	<b>Administrative Management</b>			<b>340</b>
1	8:00-9:50	M	HEc 102	Hunt
	8:00-9:50	W	HEc 202	
2	2:00-3:50	M	Ag 146	W. Greenwood
	2:00-3:50	W	Ag 116	
3	10:00-11:50	Tu	Wham 329	
	10:00-11:50	F	Wham 210	
1	8:00-9:50	M	HEc 106	Hunt
	8:00-9:50	W	HEc 202	
2	1:00-2:50	M	Ag 222	
	1:00-2:50	W	Tech A322	
3	3:00-4:50	Tu Th	HEc 206	
1	2:00-3:50	M W	Ag 144	Hunt

## 150 MANAGEMENT (MGT)

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time		Instructor
481-4		<b>Administrative Management</b>			340
		2 8:00-9:50	Tu Th	Ag 154	
		3 10:00-11:50	Tu Th	Wham 329	
483-4		<b>Advanced Production Management</b>			380
		1 4:00-4:50	MTuWTh	Wham 328	Siemens
485-4		<b>Problems in Personnel Management</b>			385
		1 1:00-1:50	MTu ThF	Ag 148	Patrick
		1 3:00-4:50	Tu	Ag 146	Patrick
		3:00-4:50	Th	Ag 224	
<sup>1</sup> Meeting with Section 1 of Management 340 at 8:00, MTu ThF.					
Meeting by itself at 8:00 every Wednesday.					

## MARKETING (MKTG)

225-3		<b>Marketing and the Economy</b>			GSB 202 or GSB 212 or equivalent
		1 11:00-11:50	Tu ThF	Tech A111	Rosenbarger
		2 4:00-4:50	M W F	Tech A111	Rosenbarger
		3 9:00-9:50	M W F	Tech A111	LaGarce
		1 9:00-9:50	M W F	Tech A111	Rosenbarger
		2 11:00-11:50	M W F	Tech A111	Wattler
		1 9:00-9:50	MTu F	Tech A111	Rosenbarger
		2 12:00-12:50	M W F	LS 133	Wattler
325-4		<b>Marketing and the Firm</b>			225 and Acct 251a or equivalent
		1 10:00-10:50	TuWThF	L 221	Adams
		2 11:00-11:50	TuWThF	L 201	Luck
		3 2:00-2:50	MTu ThF	L 201	Huegy
		4 11:00-11:50	MTuW F	L 221	Perry
		1 1:00-1:50	MTuWTh	L 201	Adams
		2 3:00-3:50	MTuWTh	L 201	Adams
		3 9:00-9:50	M WThF	L 201	Perry
		4 8:00-8:50	MTu ThF	Ag 216	Luck
		1 2:00-2:50	TuWThF	L 221	LaGarce
		2 3:00-3:50	TuWThF	L 221	LaGarce
		3 1:00-1:50	MTuWTh	L 201	Luck
		4 8:00-8:50	MTuWTh	L 201	Huegy
329-4		<b>Retail Management</b>			325
		1 10:00-10:50	MTuWTh	L 201	LaGarce
		1 3:00-3:50	TuWThF	L 221	LaGarce
		2 4:00-4:50	M WThF	L 201	LaGarce
		1 3:00-3:50	MTuWTh	L 201	Adams
		2 5:45-7:25 pm	Tu Th	L 201	LaGarce
333-4		<b>Principles of Advertising</b>			325
		1 9:00-9:50	TuWThF	L 221	Wattler
		2 1:00-1:50	M WThF	L 201	Wattler
		1 9:00-9:50	Tu ThFS	Ag 166	Lowry
		1 10:00-10:50	MTu ThF	Ag 166	Wattler
335-4		<b>International Marketing</b>			325
		1 1:00-1:50	MTuW F	L 221	
		1 2:00-2:50	MTu ThF	L 221	
336-4		<b>Purchasing</b>			325
		1 3:00-3:50	MTu ThF	LS 205	Wonneberg
		2 4:00-4:50	MTu ThF	L 201	Wonneberg
		1 4:00-4:50	MTu ThF	L 201	Wonneberg
		2 12:00-12:50	MTu ThF	L 221	Wonneberg
337-4		<b>Principles of Salesmanship</b>			325
		1 11:00-11:50	M W	Tech A111	
		1 11:00-11:50	Tu F	Wham 208	Wonneberg
		2 12:00-12:50	MTuWTh	L 201	LaGarce
		1 11:00-11:50	MTuWTh	L 201	Wonneberg
		2 1:00-1:50	MTu ThF	L 221	Wonneberg
		1 11:00-11:50	MTuWTh	L 201	Wonneberg
		2 5:45-7:25 pm	Tu Th	L 221	
341-4		<b>Transportation</b>			325
		1 3:00-3:50	TuWThF	LS 133	Rosenbarger
		1 12:00-12:50	M WThF	LS 133	Rosenbarger
		1 11:00-11:50	M W	LS 133	Rosenbarger
		11:00-11:50	ThF	L 161	
401-4		<b>Problems of Retailing</b>			325 and 329
		1 5:45-7:25 pm	M W	L 201	Adams
		1 5:45-7:25 pm	M W	L 201	Adams



Course No.—Hours	Descriptive Title		Days	Place	Prerequisite Instructor
	Fall	Winter Spring			
<b>438-4</b>	<b>Sales Management</b>				<b>325 and 337</b>
1		5:45-7:25 pm	Tu Th	L 201	Lowry
2		1:00-1:50	MTuWTh	Ag 216	Lowry
	1	2:00-2:50	MTuWTh	L 201	Hoffman
	2	10:00-10:50	TuWThF	L 221	Lowry
	1	8:00-8:50	TuWThF	L 221	Lowry
	2	10:00-10:50	MTu ThF	L 201	Lowry
<b>439-4</b>	<b>Industrial Marketing Management</b>				<b>325 and 336</b>
1		8:00-8:50	TuWThF	L 221	Adams
	t1	11:00-11:50	WThFS	L 221	
	2	1:00-1:50	TuWThF	L 221	
<b>450-4</b>	<b>Introduction to Managerial Marketing</b>				<b>Restricted to MBA students</b>
1		5:45-7:25 pm	M W	L 201	Hoffman
<b>452-4</b>	<b>Physical Distribution Management</b>				<b>325 and 341</b>
1		8:00-8:50	M W FS	L 221	Perry
<b>463-4</b>	<b>Advertising Management</b>				<b>325 and 333</b>
1		8:00-8:50	M WThF	L 201	Hindersman
	1	10:00-10:50	MTu ThF	L 201	Hindersman
	1	9:00-9:50	TuWThF	L 201	Hindersman
	2	4:00-4:50	TuWThF	L 221	Perry
<b>490-4</b>	<b>Marketing Research and Analysis</b>				<b>325 and one quarter basic statistics or its equivalent</b>
1		3:00-3:50	MTuWTh	L 201	Lowry
2		9:00-9:50	MTuWTh	L 201	Prell
	1	4:00-4:50	MTuWTh	L 221	Prell
	1	2:00-2:50	MTuWTh	L 201	Luck
	2	12:00-12:50	M WThF	L 201	Lowry

## MATHEMATICS (MATH)

<b>111a-5</b>	<b>College Algebra and Trigonometry</b>				<b>High school or 106</b>
1		8:00-8:50	MTuWThF	Brown 130	
	1	1 8:00-8:50	MTuWThF	Tech A422	
2		8:00-8:50	TuWThFS	M 102a	
3		8:00-8:50	MTuWThF	Tech A322	
4		8:00-8:50	MTuWThF	HEC 303	
5		9:00-9:50	MTuWThF	Tech A220	
6		9:00-9:50	MTuWThF	Brown 130	
		2 9:00-9:50	MTuWThF	Arena 119	
7		9:00-9:50	MTuWThF	Tech A422	
	2	9:00-9:50	MTuWThF	Wham 302	
8	3	10:00-10:50	MTuWThF	Ag 154	
9	4	3 10:00-10:50	MTuWThF	Brown 130	
10		10:00-10:50	MTuWThF	Tech A210	
11		11:00-11:50	MTuWThF	Tech A210	
12		4 11:00-11:50	MTuWThF	Brown 130	
	5	11:00-11:50	MTuWThF	Comm 114	
13		11:00-11:50	MTuWThF	Ag 168	
14		12:00-12:50	MTuWThF	M 102a	
15	6	5 12:00-12:50	MTuWThF	Ag 154	
16		1:00-1:50	MTuWThF	M 210	
17	7	1:00-1:50	MTuWThF	Tech A220	
18		6 1:00-1:50	MTuWThF	Brown 130	
19		1:00-1:50	MTuWThF	M 102a	
20		1:00-1:50	M W F	Ag 116	
		1:00-1:50	Tu Th	Ag 214	
	8	1:00-1:50	MTuWThF	Ag 216	
21		2:00-2:50	MTuWThF	Brown 130	
22		2:00-2:50	MTuWThF	M 102a	
23		2:00-2:50	MTu	M 207	
		2:00-2:50	WThF	P 204	
	9	7 2:00-2:50	MTuWThF	M 215	
	10	3:00-3:50	MTuWThF	M 302	
24		3:00-3:50	MTuWThF	M 301	
25	11	3:00-3:50	MTuWThF	M 215	
		8 3:00-3:50	MTuWThF	Tech A320	
26		3:00-3:50	MTuWThF	M 102a	
27		6:00-7:25 pm	M WTh	Tech A210	
28	12	9 6:00-7:25 pm	M WTh	Tech A220	
29		7:35-9:00 pm	M WTh	Tech A210	
30	13	7:35-9:00 pm	M WTh	Tech A220	
<b>111b-5</b>	<b>College Algebra and Trigonometry</b>				<b>111a</b>
1		8:00-8:50	MTuWThF	Brown 130	
	1	8:00-8:50	MTuWThF	M 102a	
	3	9:00-9:50	TuWThFS	M 102a	
	2	9:00-9:50	MTuWThF	Tech A422	

Course No.—	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
<b>111b-5</b>	<b>College Algebra and Trigonometry</b>				<b>111a</b>
	4	3	9:00-9:50	MTuWThF	Brown 130
	5		9:00-9:50	MTuWThF	LS 205
	6	4	10:00-10:50	MTuWThF	Tech A422
	7		10:00-10:50	MTuWThF	HEc 203
	8	5	11:00-11:50	MTuWThF	Tech A422
	9		11:00-11:50	MTuWThF	Brown 130
	10	6	12:00-12:50	MTuWThF	M 102a
	11		12:00-12:50	MTuWThF	Ag 216
	12	7	1:00-1:50	MTuWThF	M 102a
	13		1:00-1:50	MTuWThF	Brown 130
	14		1:00-1:50	MTuWThF	Arena 121
	15	8	2:00-2:50	MTuWThF	M 102a
	16		2:00-2:50	MTuWThF	Brown 130
	17	9	3:00-3:50	MTuWThF	M 102a
	18	10	6:00-7:25 pm	M WTh	Tech A320
	19	11	7:35-9:00 pm	M WTh	Tech A320
	20		7:35-9:00 pm	M WTh	Tech A210
<b>150a-5</b>	<b>Elementary Calculus and Analytic Geometry</b>				<b>GSD 114b or 111b</b>
		1	8:00-8:50	MTuWThF	Brown 130
1	1	2	8:00-8:50	MTuWThF	M 301
2	2	3	9:00-9:50	MTuWThF	Ag 216
3		4	10:00-10:50	MTuWThF	Ag 216
	3		11:00-11:50	MTuWThF	Tech D131
4			11:00-11:50	Tu ThFS	Tech A122
			11:00-11:50	W	Tech A208
		5	11:00-11:50	MTuWThF	Wham 308
5		6	12:00-12:50	MTuWThF	Ag 216
6	4		1:00-1:50	MTuWThF	Tech A210
		7	1:00-1:50	MTuWThF	Tech A422
		8	2:00-2:50	MTuWThF	Brown 130
7	5	9	3:00-3:50	MTuWThF	Brown 130
8	6	10	6:00-7:25 pm	M WTh	Tech A322
		11	7:35-9:00 pm	M WTh	Tech A322
<b>150b-5</b>	<b>Elementary Calculus and Analytic Geometry</b>				<b>150a</b>
1			8:00-8:50	MTuWThF	Tech A422
	1		8:00-8:50	MTuWThF	Tech A320
2	2	1	11:00-11:50	MTuWThF	Tech A220
3	3	2	12:00-12:50	MTuWThF	M 301
4	4	3	2:00-2:50	MTuWThF	Ag 216
5	5	4	3:00-3:50	MTuWThF	Ag 216
6	6		7:35-9:00 pm	M WTh	Tech A322
<b>252a-5</b>	<b>Intermediate Calculus and Analytic Geometry</b>				<b>150b</b>
1			8:00-8:50	MTuWThF	Tech A210
	1	1	10:00-10:50	MTuWThF	Tech A210
	2		11:00-11:50	MTuWThF	Tech A210
		T2	11:00-11:50	MTuWThF	To be arranged
2		3	12:00-12:50	MTuWThF	Tech A210
	T3		12:00-12:50	MTuWThF	To be arranged
3	4	4	2:00-2:50	MTuWThF	Tech A210
	5		6:00-7:25 pm	M WTh	Tech A210
<b>252b-4</b>	<b>Intermediate Calculus and Analytic Geometry</b>				<b>252a</b>
	T1	1	8:00-8:50	MTu ThF	Tech A210
1		2	9:00-9:50	M WThF	Tech A210
	2		9:00-9:50	MTu ThF	Tech A210
		3	2:00-2:50	M WThF	Tech A220
T2			3:00-3:50	TuWThF	Arena 119
3		3	3:00-3:50	TuWThF	Arena 125
		4	3:00-3:50	TuWThF	Arena 121
<b>305a-3</b>	<b>Applied Mathematics for the Physical Sciences</b>				<b>252b</b>
1			10:00-10:50	Tu Th	Tech A220
			10:00-10:50	M	Tech A422
	1		10:00-10:50	Tu Th S	Tech A322
2			12:00-12:50	M W F	Tech A320
	2		1:00-1:50	M WTh	Gym 204
3			4:00-4:50	M W F	Tech A220
<b>305b-3</b>	<b>Applied Mathematics for the Physical Sciences</b>				<b>305a</b>
		1	10:00-10:50	Tu Th S	Tech A220
	1		12:00-12:50	M W F	Tech A320
		2	1:00-1:50	M WTh	HEc 106
	2		4:00-4:50	M W F	Tech A220
<b>310-4</b>	<b>The Teaching of Elementary Mathematics</b>				<b>GSD 108b</b>
1		1	2:00-2:50	M W F	Wham 308
			2:00-2:50	Tu	Wham 205
2		2	2:00-2:50	M W F	Wham 308
			2:00-2:50	Th	Wham 305

Course No.—Hours		Descriptive Title	Days			Place	Prerequisite Instructor	
Fall	Winter	Spring	Time					
3		3	2:00–2:50	M	W	F	Wham 308	Paige
			10:00–10:50	Tu			Wham 205	
4		4	2:00–2:50	M	W	F	Wham 308	Paige
			10:00–10:50		Th		Wham 326	
	1		11:00–11:50	M	W	F	Wham 308	Paige
			11:00–11:50	Tu			Wham 312	
	2		11:00–11:50	M	W	F	Wham 308	Paige
			11:00–11:50		Th		Wham 203	
	3		11:00–11:50	M	W	F	Wham 308	Paige
			10:00–10:50	Tu			Wham 205	
	4		11:00–11:50	M	W	F	Wham 308	Paige
			10:00–10:50		Th		Wham 205	
311–3	The Teaching of Secondary Mathematics							320a
1		1	10:00–10:50	M	W	F	Tech A220	
	1		11:00–11:50	M	W	F	Tech A422	
320a–3	Fundamental Concepts of Algebra							150b
1		1	8:00–8:50	M	W	F	Tech A220	
	1		11:00–11:50	Tu	Th	S	Tech A322	
2			11:00–11:50	Tu	Th		Tech A322	
			11:00–11:50			F	Ag 214	
3			3:00–3:50	M	W		Arena 125	
			3:00–3:50			F	Arena 123	
	2		3:00–3:50	M	W	F	Wham 206	
320b–3	Fundamental Concepts of Algebra							320a
	1		8:00–8:50	M	W	Th	Tech A322	
1			11:00–11:50	M	W	F	Tech A422	
		1	11:00–11:50	M	W	F	Tech A320	
	2		3:00–3:50	M	W	F	Tech A422	
		2	3:00–3:50	M	W	F	Tech A210	
335a–3	Concepts of Geometry							252a
1			3:00–3:50	M	Tu	Th	Tech A320	
T2			3:00–3:50	M	Tu	Th	Tech A220	
	1		9:00–9:50	M	W	F	Tech A220	
335b–3	Concepts of Geometry							335a
		1	9:00–9:50	M	W	F	Tech A220	
	1		3:00–3:50	M	Tu	Th	Tech A320	
	T2		3:00–3:50	M	Tu	Th	Tech A220	
410a–4	Statistical Analysis							GSD 108c
1			10:00–10:50	M	W	F	Ag 166	
			10:00–11:50	Tu			Tech A320	
2			10:00–10:50	M	W	F	Ag 166	
			10:00–11:50		Th		Tech A320	
3			10:00–10:50	M	W	F	Ag 166	
			1:00–2:50		Th		Tech A320	
4 <sup>1</sup>			10:00–10:50	M	W	F	Ag 166	
			10:00–11:50		Th		Tech A422	
410b–4	Statistical Analysis							GSD 410a
	1		10:00–10:50	M	W	F	Ag 166	
			10:00–11:50	Tu			Tech A320	
	2		10:00–10:50	M	W	F	Ag 166	
			10:00–11:50		Th		Tech A422	
	3 <sup>1</sup>		10:00–10:50	M	W	F	Ag 166	
			10:00–11:50		Th		Tech A308	
410c–4	Statistical Analysis							410b
		1	10:00–10:50	M		F	Ag 224	
			10:00–10:50	Tu	Th		Tech A322	
410d–4	Statistical Analysis							410b
	1		1:00–1:50	M	Tu	Th	F	Tech A220
421a–3	Linear Algebra							252b
1		1	12:00–12:50	Tu	W	F	Tech A322	
2			2:00–2:50		W	F	Tech A322	
2			2:00–2:50	Tu			Tech A320	
	1		8:00–8:50	M	W	F	Tech A220	
421b–3	Linear Algebra							421a
		1	8:00–8:50	M	W	F	Tech A320	
	1		12:00–12:50	Tu	W	F	Tech A322	
	2		2:00–2:50	Tu			Tech A320	
			2:00–2:50		W		Ag 224	
			2:00–2:50			F	Tech A322	
425–3	Theory of Numbers							320a
	1		2:00–2:50	M	Tu	Th	Tech A320	
426a–3 <sup>2</sup>	Mathematical Logic							320a
1			11:00–11:50	Tu	Th	S	Tech A222	
426b–3 <sup>2</sup>	Mathematical Logic							426a
	1		11:00–11:50	Tu	Th	S	Tech A222	
428a–3	Boolean Algebra and Switching Theory							320a
	1		1:00–1:50	M	W	F	Tech A320	



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
428b-3	Boolean Algebra and Switching Theory						428a
	1	1:00-1:50		M	W	F	Tech A320
430-4	Projective Geometry						252a
	1	9:00-9:50		MTuW		F	Tech A320
433-3	Theory of Point Sets						Consent
	1	4:00-4:50		M	W	F	Tech A322
452a-3	Advanced Calculus						252b
	1	9:00-9:50		MTuW		F	Tech A322
	r2	9:00-9:50		MTuW		F	To be arranged
452b-3	Advanced Calculus						452a
	1	9:00-9:50		MTuW		F	Tech A322
	r2	9:00-9:50		MTuW		F	To be arranged
452c-3	Advanced Calculus						452b
	1	9:00-9:50		MTuW		F	Tech A322
T455a-3	Advanced Mathematics for the Physical Sciences						305b
	1	12:00-12:50		MTu		Th	To be arranged
T455b-3	Advanced Mathematics for the Physical Sciences						305b
	1	12:00-12:50		MTu		Th	Tech A220
T455c-3	Advanced Mathematics for the Physical Sciences						305b
	1	12:00-12:50		MTu		Th	Tech A220
458a-3	Finite Mathematics						252a
	1	2:00-2:50		M	W	F	Tech A320
	1	4:00-4:50		M	W	F	Tech A320
458b-3	Finite Mathematics						458a
	1	2:00-2:50		M	W	F	Tech A422
	1	4:00-4:50		M	W	F	Tech A320
475a-3	Numerical Analysis						305a
	r1	8:00-8:50		M	W	F	To be arranged
475b-3	Numerical Analysis						475a
	r1	8:00-8:50		M	W	F	To be arranged
475c-3	Numerical Analysis						475b
	r1	8:00-8:50		M	W	F	To be arranged
480a-4	Probability						252b
	1	10:00-10:50		MTuW		F	Tech A322
480b-3	Probability						480a
	1	10:00-10:50		M	W	F	Tech A322
480c-3	Probability						480b
	1	10:00-10:50		M	W	F	Tech A322
483a-4	Introduction to Mathematical Statistics						252b
	1	3:00-3:50		MTu		ThF	Tech A322
483b-4	Introduction to Mathematical Statistics						483a
	1	3:00-3:50		MTu		ThF	Tech A322
483c-4	Introduction to Mathematical Statistics						483b
	1	3:00-3:50		MTu		ThF	Tech A322
501a-3	Real Variables						452c
	1	1:00-1:50		Tu		ThF	Tech A422
501b-3	Real Variables						501a
	1	1:00-1:50		Tu		ThF	Tech A322
501c-3	Real Variables						501b
	1	1:00-1:50		Tu		ThF	Tech A322
505a-3	Theory of Ordinary Differential Equations						501b; 421a
	1	9:00-9:50		M	W	F	Tech B20
505b-3	Theory of Ordinary Differential Equations						505a
	1	9:00-9:50		M	W	F	Tech B20
505c-3	Theory of Ordinary Differential Equations						505b
	1	9:00-9:50		M	W	F	Tech B20
510-4	Foundations of Mathematics						252b
	1	8:00-8:50		MTuWTh			Tech A322
520a-3	Modern Algebra						320a; 421a
	1	2:00-2:50		MTu		Th	Tech A322
520b-3	Modern Algebra						520a
	1	2:00-2:50		MTu		Th	Tech A322
520c-3	Modern Algebra						520b
	1	2:00-2:50		MTu		Th	Tech A322
T522-3	Advanced Topics in Algebra						520b
	1	2:00-2:50		MTu		Th	Tech B20
528a-3	Theory of Automata						428b
	r1	12:00-12:50		M	W	F	Tech B20
528b-3	Theory of Automata						528a
	r1	12:00-12:50		M	W	F	Tech B20
528c-3	Theory of Automata						528b
	r1	12:00-12:50		M	W	F	Tech B20
530a-3	Point Set Topology						433
	1	4:00-4:50		M	W	F	Tech A322
530b-3	Point Set Topology						530a
	1	4:00-4:50		M	W	F	Tech A322
531a-3	Algebraic Topology						530a, 520a
	1	4:00-4:50		M	W	F	Tech B20

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
531b-3	<b>Algebraic Topology</b> .....						531a
1			4:00-4:50	M	W	F	Tech B20
532-3	<b>Advanced Topics in Topology</b> .....						530b
1	1	1	To be arranged				
550-2 to 6	<b>Seminars (To be selected from 550a,b,c,d,f,g and from times listed.)</b> .....						
1	1	1	10:00-11:50	Tu	Th		Tech B20
2	2	2	2:00-3:50		W	F	Tech B20
551a-3	<b>Functional Analysis</b> .....						501c, 421b
1			1:00-1:50	M	W	F	Tech B20
551b-3	<b>Functional Analysis</b> .....						551a
1			1:00-1:50	M	W	F	Tech B20
551c-3	<b>Functional Analysis</b> .....						551b
1			1:00-1:50	M	W	F	Tech B20
T552-3	<b>Advanced Topics in Analysis</b> .....						Consent
1	1	1	To be arranged				
555a-3	<b>Complex Variables</b> .....						452c
1			11:00-11:50	M	W	F	Tech A322
555b-3	<b>Complex Variables</b> .....						555a
1			11:00-11:50	M	W	F	Tech A322
555c-3	<b>Complex Variables</b> .....						555b
1			11:00-11:50	M	W	F	Tech A322
595a-2 to 5	<b>Special Project in Algebra</b> .....						Consent
1	1	1	To be arranged				
595b-2 to 5	<b>Special Project in Geometry</b> .....						Consent
1	1	1	To be arranged				
595c-2 to 5	<b>Special Project in Analysis</b> .....						Consent
1	1	1	To be arranged				
595d-2 to 5	<b>Special Project in Probability and Statistics</b> .....						Consent
1	1	1	To be arranged				
595e-2 to 5	<b>Special Project in Mathematics Education</b> .....						Consent
1	1	1	To be arranged				
595f-2 to 5	<b>Special Project in Logic and Foundations</b> .....						Consent
1	1	1	To be arranged				
595g-2 to 5	<b>Special Project in Topology</b> .....						Consent
1	1	1	To be arranged				
599-2 to 6	<b>Thesis</b> .....						Consent
1	1	1	To be arranged				
600-3 to 12	<b>Dissertation</b> .....						Consent
1	1	1	To be arranged				

<sup>1</sup> Open to Psychology students only.

<sup>2</sup> Cross-listed with Philosophy 426.

## MICROBIOLOGY (MICR)

301-5	<b>Principles of Microbiology</b> .....		1 year college Chem and GSA 201a,b,c	
1		10:00-10:50	MTuWTh	LS G16
		8:00-9:50	M W	LS G6
		9:00-9:50		F LS G6
2		10:00-10:50	MTuWTh	LS G16
		11:00-12:50	M W	LS G6
		11:00-11:50		F LS G6
3		10:00-10:50	MTuWTh	LS G16
		1:00-2:50	M W	LS G6
		1:00-1:50		F LS G6
4		10:00-10:50	MTuWTh	LS G16
		3:00-4:50	M W	LS G6
		3:00-3:50		F LS G6
5		10:00-10:50	MTuWTh	LS G16
		1:00-2:50	Tu Th	LS G6
		9:00-9:50		S LS G6
1		8:00-8:50	MTuWTh	LS G16
		9:00-10:50	M W	LS G6
		9:00-9:50		F LS G6
2		8:00-8:50	MTuWTh	LS G16
		11:00-12:50	M W	LS G6
		11:00-11:50		F LS G6
3		8:00-8:50	MTuWTh	LS G16
		1:00-2:50	M W	LS G6
		8:00-8:50		F LS G6
4		8:00-8:50	MTuWTh	LS G16
		3:00-4:50	M W	LS G6
		10:00-10:50		F LS G6
5		8:00-8:50	MTuWTh	LS G16
		1:00-2:50	Tu Th	LS G6
		9:00-9:50		S LS G6

McClary

McClary

McClary

McClary

McClary

Course No.—	Hours	Descriptive Title	Time	Days			Place		Prerequisite	Instructor
Fall	Winter	Spring								
302-5	General	Microbiology								Micro 301
		1	3:00-3:50	M	W	F	LS G16			McClary
			9:00-9:50			F	LS G6			
			9:00-10:50	M	W		LS G6			
		2	3:00-3:50	M	W	F	LS G16			McClary
			12:00-1:50	M	W		LS G6			
			1:00-1:50			F	LS G6			
390-2 to 5	Undergraduate	Research Participation							4.00 grade point average and consent	
1	1	1	To be arranged							
401-1	Seminar						10 hrs	Micro and consent		
1	1		10:00-11:50			F	LS G16			
		1	10:00-11:50			F	LS 205			
403-5	Medical	Bacteriology							301 and 302	
1			2:00-2:50	M	W	F	LS G16			McClary
			9:00-10:50		Tu	Th	LS G6			
			10:00-10:50			S	LS G6			
422-5	Microbiology	of Foods					301, 302 and organic	Chemistry		
1			2:00-2:50	MTuW			LS G16			McClary
			1:00-4:50			F	LS G6			
425-3	Biochemistry	and Physiology of Microorganisms							301 and organic	
1			9:00-9:50	M	W	F	LS G16			Ogur
426-2	Biochemistry	and Physiology of Microorganisms							301, 425, and organic	
			1:00-4:50			Th	LS G8			Ogur
441-6	Virology								403, 451, and consent	
		1	10:00-10:50	MTuW			LS G16			
			1:00-3:50		Tu	Th	LS G6			
451-6	Immunology								403 and consent	
	1		9:00-9:50	M	W	F	LS G16			
			9:00-11:50		Tu	Th	LS G6			
500-1	Seminar								Grad standing in Micro	
1	1		10:00-11:50			F	LS G16			
		1	10:00-11:50			F	LS 205			
501-2	Genetics	of Microorganisms								
1			To be arranged							Lindegren
503-2	Cytology	of Microorganisms								
	1		To be arranged							Lindegren
504-5	Methods	of Microbiological Research								
	1		To be arranged				LS G8			Ogur
506-2	Bibliographic	Methods in Microbiology								
1			7:35-9:00 pm		Tu		LS 205			Ogur
511-1 to 15	Research									
1	1	1	To be arranged							
525-3	Biochemistry	and Physiology of Microorganisms							Micro 425	
1			10:00-10:50	M	WTh		LS G16			Ogur
526-2	Biochemistry	and Physiology of Microorganisms							Micro 426	
1			1:00-4:50			Th	LS G8			Ogur
528-1 to 3	Readings	in Microbiology							Graduate standing in Biology	
1	1	1	To be arranged							
541-6	Advanced	Virology								
1			3:00-3:50	M	W	F	LS G16			
			3:00-5:50		Tu	Th	LS G6			
599-3 to 9	Thesis									
1	1	1	To be arranged							
600-3 to 12	Dissertation									
1	1	1	To be arranged							

## MUSIC (MUS)

000-0	<b>Freshman-Transfer Orientation</b>								
	1			12:00-12:50		Th		Alg 115	Gordon
001a-1 to 2	<b>Saluki Marching Band</b>								<b>Men only</b>
	1			3:00-5:00		Tu	ThF	T36	Hanes
				7:00-9:00 pm	M			T36	
001b-1	<b>Symphonic Band</b>								
	1			3:00-3:50	M	W		T36	Hanes
		1	1	3:00-3:50	M	W	F	T36	Hanes
001c-1	<b>Stage Band</b>								<b>Audition</b>
	1			7:00-9:00 pm			Th	T36	Stiman
		1	1	3:00-3:50		Tu	Th	T36	Stiman
001d-1	<b>Laboratory Band</b>								
	1			To be arranged					
001e-1	<b>Wind Ensemble</b>								<b>Audition</b>
	1			4:00-5:30	M	W		T36	Siener
		1	1	4:00-5:30	M	W	F	T36	Siener



Course No.—Hours Fall Winter Spring	Descriptive Title Time	Days	Place	Prerequisite Instructor
001f-1	Accompanying Lab			Audition
1 1 1	To be arranged			
002a-1	University Choir			Audition
1 1 1	3:00-3:50	MTuWTh	Alg 115	Kingsbury
002b-1/2 to 1	Oratorio Chorus			
1 1 1	7:30-9:45 pm	M	Alg 115	Kingsbury
002c-1	Male Glee Club			Audition
1 1 1	8:00-9:30 pm	Tu Th	Alg 115	Kingsbury
002d-1	University Chorus			Audition
1 1 1	4:00-4:50	M W	Alg 115	Kingsbury
	4:00-4:50		F Alg 116	
003-1	Orchestra			Audition
1 1 1	1:00-1:50	M W F	T36	Levinson
	7:15-9:30 pm	Tu	T36	van Bronkhorst
010-6	Class Applied Music			
010a-6	Strings			
1 1 1	11:00-11:50	M W F	To be arranged	
				Wharton Spurbeck
010b-1	Woodwinds			
1 1 1	8:00-8:50	M W F		Resnick
			Aud 201	Intravaia
010c-1	Brass			
1 1 1	8:00-8:50	M W F	To be arranged	Stiman
010d-1	Percussion			
1 1 1	8:00-8:50	M W F	T36	Hanes
010e-1	Piano (MM 6,1,2)			
1 1 1	8:00-8:50	M	F	Hartline
			Alg 301	Bedford
010e-1	Piano (KP 2,3,1)			
2 2 2	9:00-9:50	M	F	Hartline
			Alg 301	Bedford
010e-1	Piano (MM 4,5,6)			
3 3 3	10:00-10:50	Tu	F	Hartline
			Alg 301	Bedford
010e-1	Piano (MM 1,2,3)			
4 4 4	11:00-11:50	M	F	Hartline
			Alg 301	Bedford
010e-1	Piano (MM 1,2,3)			
5 5 5	12:00-12:50	M W		Hartline
			Alg 301	Bedford
010e-1	Piano (MM 5,6,1)			
6 6 6	1:00-1:50	M W		Hartline
			Alg 301	Bedford
010e-1	Piano (MM 4,5,6)			
7 7 7	2:00-2:50	M W		Hartline
			Alg 301	Bedford
010e-1	Piano (KP 1,2,3)			
8 8 8	3:00-3:50	M W		Hartline
			Alg 301	Bedford
010e-1	Piano (MM 6,6,6)			
9 9 9	12:00-12:50	Tu	F	Hartline
			Alg 301	Bedford
010e-1	Piano (MM 3,4,5)			
10 10 10	1:00-1:50	Tu	F	Hartline
			Alg 301	Bedford
010e-1	Piano (MM 5,6,1)			
11 11 11	2:00-2:50	Tu	F	Hartline
			Alg 301	Bedford
010e-1	Piano (KP 2,3,1)			
12 12 12	3:00-3:50	Tu	F	Hartline
			Alg 301	Bedford
010e-1	Piano (KP 3,1,2)			
13 13 13	11:00-11:50	Tu Th		Hartline
			Alg 301	Bedford
010e-1	Piano (SKP 3,3,3)			
14 14 14	9:00-9:50	Tu Th		Hartline
			Alg 301	Bedford
010e-1	Piano (KP 1,2,3)			
15 15 15	10:00-10:50	M W		Hartline
			Alg 301	Bedford
010e-1	Piano (KP 3,1,2)			
16 16 16	11:00-11:50	W S		Hartline
			Alg 301	Bedford
010f-1	Voice			
1 1 1	10:00-10:50	W F	Alg 248	Waterman
2 2 2	1:00-1:50	Tu Th	Alg 248	Waterman

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
<b>105a-4 Theory of Music</b>							
1			9:00-9:50	MTuWThF	Alg	106	Werner
2			9:00-9:50	MTuWThF	Alg	116	Grizzell
3			8:00-8:50	MTuWThF	Alg	106	Webb
4			8:00-8:50	MTuWThF	Alg	116	Nadaf
T5			9:00-9:50	MTuWThF	Alg	248	Hall
<b>105b-4 Theory of Music</b>							
1			9:00-9:50	MTuWThF	Alg	106	Werner
2			9:00-9:50	MTuWThF	Alg	116	Grizzell
3			8:00-8:50	MTuWThF	Alg	106	Webb
4			8:00-8:50	MTuWThF	Alg	116	Nadaf
T5			9:00-9:50	MTuWThF	Alg	248	Hall
<b>105c-4 Theory of Music</b>							
1			9:00-9:50	MTuWThF	Alg	106	Werner
2			9:00-9:50	MTuWThF	Alg	116	Grizzell
3			8:00-8:50	MTuWThF	Alg	106	Webb
4			8:00-8:50	MTuWThF	Alg	116	Nadaf
T5			9:00-9:50	MTuWThF	Alg	248	Hall
<b>140-1 to 4 Private Applied Music</b>							
<b>140a-1 to 4 Private Applied Music—Violin</b>							
1	1	1	To be arranged		Alg	219	Wharton
2	2	2	To be arranged		T37	van Bronkhorst	
<b>140b-1 to 4 Private Applied Music—Viola</b>							
1	1	1	To be arranged		T37		Hall
<b>140c-1 to 4 Private Applied Music—Cello</b>							
1	1	1	To be arranged		T37		Spurbeck
<b>140d-1 to 4 Private Applied Music—String Bass</b>							
1	1	1	To be arranged		T37		Spurbeck
<b>140e-1 to 4 Private Applied Music—Flute</b>							
1	1	1	To be arranged		Aud	201	Resnick
2	2	2	To be arranged		Alg	234	Bottje
<b>140f-1 to 4 Private Applied Music—Oboe</b>							
1	1	1	To be arranged		T36		Hussey
<b>140g-1 to 4 Private Applied Music—Clarinet</b>							
1	1	1	To be arranged		Aud	201	Resnick
<b>140h-1 to 4 Private Applied Music—Bassoon</b>							
1	1	1	To be arranged		T36		Intravaia
<b>140i-1 to 4 Private Applied Music—Saxophone</b>							
1	1	1	To be arranged		Aud	201	Resnick
<b>140j-1 to 4 Private Applied Music—Percussion</b>							
1	1	1	To be arranged		T36		Hanes
<b>140k-1 to 4 Private Applied Music—Piano</b>							
1	1	1	To be arranged		Alg	238	Denker
2	2	2	To be arranged		Alg	247	Barwick
3	3	3	To be arranged		Alg	241	Werner
4	4	4	To be arranged		Alg	245	Grizzell
5	5	5	To be arranged		Alg	244	Mueller
<b>140l-1 to 4 Private Applied Music—French Horn</b>							
1	1	1	To be arranged		Alg	233	Nadaf
<b>140m-1 to 4 Private Applied Music—Trumpet</b>							
1	1	1	To be arranged		Alg	229	Olsson
<b>140n-1 to 4 Private Applied Music—Trombone</b>							
1	1	1	To be arranged		Alg	231	Stiman
<b>140o-1 to 4 Private Applied Music—Tuba</b>							
1	1	1	To be arranged		Alg	103	Siener
<b>140p-1 to 4 Private Applied Music—Baritone</b>							
1	1	1	To be arranged		Alg	231	Stiman
<b>140q-1 to 4 Private Applied Music—Voice</b>							
1	1	1	To be arranged		Alg	246	W. Taylor
2	2	2	To be arranged		Alg	239	Waterman
3	3	3	To be arranged		T37		Lawrence
<b>140r-1 to 4 Private Applied Music—Organ</b>							
1	1	1	To be arranged		Alg	217	Webb
<b>200-3 Fundamentals of Music (non-music majors)</b>							
1	1	1	1:00-1:50	M W F	Alg	116	Gordon
<b>200-3 Fundamentals of Music (PEW)</b>							
2			2:00-2:50	M W F	Alg	116	Gordon
<b>205a-3 Theory of Music</b>							
1			11:00-11:50	MTuWThF	Alg	106	Denker
2			11:00-11:50	MTuWThF	Alg	116	Mueller
3			1:00-1:50	MTuWThF	Alg	106	
<b>205b-3 Theory of Music</b>							
1			11:00-11:50	MTuWThF	Alg	106	Denker
2			11:00-11:50	MTuWThF	Alg	116	Mueller
3			1:00-1:50	MTuWThF	Alg	106	
<b>205c-3 Theory of Music</b>							
1			11:00-11:50	MTuWThF	Alg	106	Denker
2			11:00-11:50	MTuWThF	Alg	116	Mueller

Course No.— Fall Winter Spring	Hours Time	Descriptive Title	Days	Place	Prerequisite Instructor
246-1 to 4	3	1:00-1:50	MTuWThF	Alg 106	
300a-3	1	8:00-8:50	M W F	U Sch 201	Robinson
300b-3	1	8:00-8:50	M W F	U Sch 201	Robinson
305i-3	1	8:00-8:50	M W F	Alg 248	C. Taylor
305v-3	1	9:00-9:50	M W F	Aud 201	Stiman
306-3	1	8:00-8:50	M W F	U Sch 201	Robinson
309a-2	1	2:00-2:50	W F	Alg 248	Levinson
309b-2	1	2:00-2:50	W F	Alg 248	Bottje
309c-2	1	2:00-2:50	W F	Alg 248	Bottje
312a-2	1	To be arranged		Alg 234	Bottje
312b-2	1	To be arranged		Alg 234	Bottje
312c-2	1	To be arranged		Alg 234	Bottje
318a-2	1	2:00-2:50	W F	Alg 116	Levinson
318b-2	1	2:00-2:50	W F	Alg 116	Levinson
318b-2	1	2:00-2:50	W F	Alg 115	Kingsbury
326a-2	1	10:00-10:50	Tu F	Alg 115	Bottje
326b-2	1	10:00-10:50	Tu F	Alg 115	Bottje
326c-2	1	10:00-10:50	Tu F	Alg 115	Bottje
340-1 to 4	1	4:00-4:50	Tu Th	Alg 116	Kingsbury
345-1	1	4:00-4:50	Tu Th	Alg 115	Lawrence
346-2 to 12	1	3:00-4:50	F	Alg 115	Lawrence
355-1	1	7:00-10:00 pm	WTh	Alg 115	Lawrence
365-1	1	12:00-12:50	M	Aud Stage	Hall
365-1	1	12:00-12:50	Tu	Aud 201	Resnick
365-1	2	12:00-12:50	Tu	Aud Stage	Nadaf
411a-3	1	1:00-1:50	M W F	Alg 248	Hanes
411b-3	1	1:00-1:50	M W F	Alg 248	
411c-3	1	1:00-1:50	M W F	Alg 248	
414-2	1	7:00-9:00 pm	M	T37	Morgan
420-1	1	To be arranged			
T430-2	1	To be arranged			Stiman
T431-2	1	To be arranged			Stiman
440-1 to 4	1	2:00-2:50	Tu Th	Alg 248	Werner
441a-2	1	2:00-2:50	Tu Th	Alg 248	Werner
441b-2	1	2:00-2:50	Tu Th	Alg 248	Werner
441c-2	1	2:00-2:50	Tu Th	Alg 248	Werner
T443a-2	1	To be arranged		Alg 234	Bottje



Course No.—Hours		Descriptive Title		Time		Days	Place	Prerequisite Instructor
Fall	Winter	Spring						
T443b-2	Advanced	Composition						443a
1		To be arranged					Alg 234	Bottje
T443c-2	Advanced	Composition						443b
1		To be arranged					Alg 234	Bottje
451-3	Teaching	General Music, High School						
1		9:00-9:50		TuWTh			U Sch 201	C. Taylor
465a-3	Development	and Teaching of Strings						
1		To be arranged						Spurbeck
481-2 to 6	Readings	in Music Theory						
1	1	To be arranged					Alg 244	Mueller
482-2 to 6	Readings	in Music History and Literature						
1	1	To be arranged					T37	Morgan
483-2 to 6	Readings	in Music Education						
1	1	To be arranged					Shry 204	Gordon
501-3	Introduction	to Graduate Study in Music						
1		12:00-12:50		M W F			Lib Sem	Denker
502a-2	Analytic	Techniques						
1		2:00-2:50		Tu Th			Alg 106	Mueller
502b-2	Analytic	Techniques						
1		2:00-2:50		Tu Th			Alg 106	Mueller
502c-2	Analytic	Techniques						
1		2:00-2:50		Tu Th			Alg 106	Mueller
503-3	Objective	Research Techniques in Music Education						
1		6:45-9:15 pm		Th			Alg 106	Gordon
504-3	Music of the	Middle Ages and Renaissance						
1		2:00-2:50		M W F			Alg 106	Barwick
505-3	Music of the	Baroque Period						
1		2:00-2:50		M W F			Alg 106	Morgan
507-3	Music of	Romantic and Impressionistic Period						
1		2:00-2:50		M W F			Alg 106	Morgan
509-3	History of	Philosophy of Music Education						
1		To be arranged						Gordon House
512-3	History of	Opera						
1		11:00-11:50		M W F			Alg 248	
522-3	Seminar in	Music History and Literature						
1		To be arranged					T37	Morgan
531-3	Advanced	Composition						
1	1	To be arranged					Alg 234	Bottje
535-3	Contemporary	Idioms						
1		1:00-1:50		M W F			Lib Sem	Bottje
540-1 to 4	Private	Applied Music (See Music 140)						
545-3	Philosophies	of Music Theory						
1	1	4:00-4:50		M W F			Alg 244	Mueller
550-3	Administration	and Supervision of Music						
1		8:00-8:50		Tu			U Sch 201	C. Taylor
		8:00-9:50		Th			U Sch 201	C. Taylor
556-2 to 6	Advanced	Conducting (Choral)						
1	1	To be arranged					Alg 115	Kingsbury
556-2 to 6	Advanced	Conducting (Instrumental)						
2	2	To be arranged					T37	van Bronkhorst
560-2 or 3	Seminar	in Music Education						
1		To be arranged					Shry 204	Gordon
566-1 or 2	Instrumental	Ensemble (Band)						Audition
1		4:00-5:30		M W			T36	Siener
	1	4:00-5:30		M W F			T36	Siener
566-1 to 2	Instrumental	Ensemble (Orchestra)						
2	2	1:00-1:50		M W F			T36	Levinson
		7:15-9:30 pm		Tu			T36	van Bronkhorst
567-1 or 2	Vocal	Ensemble						Audition
1	1	To be arranged					Alg 115	Kingsbury
568-2 to 12	Opera	Workshop						Audition
1	1	4:00-4:50		Tu Th			Alg 115	Lawrence
		3:00-4:50		F			Alg 115	Lawrence
		7:00-10:00 pm		WTh			Alg 115	Lawrence
599-3 to 9	Thesis							
1	1	To be arranged					Shry 204	Gordon

NOTE: All private lessons (Applied Music Courses) must be arranged with the instructor concerned on the first day of each quarter. Courses in private or class instruments will be offered to qualified non music majors after consultation with the chairman of the Department of Music. Students enrolled in private or class applied courses are expected to practice at least one hour per day. Air-conditioned practice rooms will be assigned on the first day of each quarter in Altgeld 103.

### PHILOSOPHY (PHIL)

300-4	Elementary	Metaphysics						
1		10:00-10:50		MTuWTh			HEc 208	Kelly

Course No.—Hours		Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter Spring					
301-4		Philosophy of Religion				
	1	10:00-10:50	MTuWTh	HEc 208	Howie	
GSC 310-3		Religious Foundations of Western Civilization				
	1	10:00-10:50	M W F	L 161		
GSC 311-3		Religions and Philosophies of India				
	1	10:00-10:50	M W F	L 161		
GSC 312-3		Religions and Philosophies of the Far East				
	1	8:00-8:50	M W F	L 151		
320-4		General Logic				
	1	2:00-2:50	MTuWTh	HEc 202	Clarke	
	1	2:00-2:50	MTuWTh	HEc 202	Clarke	
340-4		Elementary Ethics and Politics				
	1	9:00-9:50	MTuWTh	HEc 208	Howie	
360-4		Philosophy of Art				
	1	6:00-7:25 pm	Tu Th	HEc 202	Baralt	
GSC 363a-3		Philosophy of Science				
	1	11:00-11:50	Tu Th S	HEc 208	Clarke	
GSC 381-3		Greek Philosophy				
	1	8:00-8:50	M W F	HEc 208		
	2	12:00-12:50	M W F	HEc 208	Howie	
	3	1:00-1:50	M W F	HEc 208	Diefenbeck	
	4	2:00-2:50	M W F	HEc 208	Mrs. Eames	
	5	3:00-3:50	M W F	HEc 202	Kelly	
GSC 382-3		Graeco-Roman and Medieval Philosophy				
	1	8:00-8:50	M W F	HEc 208		
	2	12:00-12:50	M W F	HEc 208	Howie	
	3	1:00-1:50	M W F	HEc 208	Diefenbeck	
	4	2:00-2:50	M W F	HEc 208	Mrs. Eames	
	5	3:00-3:50	M W F	HEc 202	Kelly	
GSC 383-3		Early Modern Philosophy				
	1	8:00-8:50	M W F	HEc 208		
	2	12:00-12:50	M W F	HEc 208	Howie	
	3	1:00-1:50	M W F	HEc 208	Diefenbeck	
	4	2:00-2:50	M W F	HEc 208	Mrs. Eames	
	5	3:00-3:50	M W F	HEc 202	Kelly	
GSC 386-3		Early American Philosophy				
	1	2:00-2:50	M W F	Tech A111	Hahn	
GSC 387-3		Recent American Philosophy				
	1	2:00-2:50	M W F	Tech A111	Hahn	
415-3 <sup>1</sup>		Logic of the Social Sciences				
	1	11:00-11:50	M W F	Cl 326	McClure	
	1	11:00-11:50	Tu ThF	HEc 106		
420-4		Advanced Logic				
	1	10:00-10:50	MTuWTh	HEc 202	Clarke	
443-4		Philosophy of History				
	1	3:00-3:50	MTuW F	HEc 208	Diefenbeck	
460-4		Advanced Philosophy of Art				
	1	7:35-9:15 pm	Tu Th	HEc 203	Tenney	
477-4 <sup>2</sup>		Latin American Philosophy				
	1	5:45-7:25 pm	Tu Th	HEc 202	Baralt	
478-4 <sup>2</sup>		Latin American Thought				
	1	5:45-7:25 pm	Tu Th	HEc 202	Baralt	
481a-3		19th Century European Philosophy				
	1	3:00-3:50	M W F	HEc 208	Diefenbeck	
481b-3		19th Century European Philosophy				
	1	9:00-9:50	M W F	HEc 208	Leys	
482-3		Recent European Philosophy				
	1	10:00-10:50	M W F	HEc 208	Flynn	
490-3		Leibniz				
	1	7:35-9:30 pm	M	HEc 208	Mr. Eames	
490-3		Special Problems				
	2	To be arranged		HEc 209	Hahn	
490-3		Ethics				
	1	4:00-6:30 pm	M	HEc 208	Leys	
490-3		Marx				
	2	7:00-9:30 pm	M	HEc 208		
490-3		Special Problems				
	2	To be arranged		HEc 209	Hahn	
490-3		Theory of Value				
	1	7:00-9:30 pm	M	HEc 208	Mr. Eames	
490-3		Causality				
	2	4:00-6:30 pm	Tu	HEc 303		
490-3		Special Problems				
	3	To be arranged		HEc 209	Hahn	
500-3		Metaphysics				
	1	4:00-6:30 pm	W	HEc 208	Hahn	
501-3		Philosophy of Religion				
	1	7:00-9:30 pm	Tu	HEc 201	Howie	

Course No.—Hours		Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
515-3		Theory of Nature			
	1	4:00-6:30 pm	W	HEc 208	Diefenbeck
530-3		Theory of Knowledge			
	1	4:00-6:30 pm	W	HEc 208	McClure
540-3 <sup>3</sup>		Philosophy of Journalism			
	1	8:00-9:50	Th	HEc 211	Moore
T555-4 <sup>4</sup>		Philosophy of Higher Education			
	1	9:00-11:50	S	Wham 321	Dibden
582-3		Aristotle			
	1	7:00-9:30 pm	W	HEc 208	Plochmann
585-3		British Empiricism			
	1	4:00-6:30 pm	M	HEc 208	Leys
588-3		Kant			
	1	4:00-6:30 pm	Tu	HEc 106	Schilpp
589-4 <sup>5</sup>		Dewey's Philosophy of Education			
	1	4:00-6:30 pm	Tu	HEc 208	Axtelle
589-4 <sup>5</sup>		Philosophy of William James			
	1	4:00-6:30 pm	Tu	HEc 208	Axtelle
589-4 <sup>5</sup>		Philosophy of Mead			
	1	4:00-6:30 pm	Tu	HEc 208	Axtelle
590-3		Twentieth Century Philosophers			
	1	4:00-6:30 pm	Tu	HEc 303	Schilpp
590-3		Phenomenology			
	2	7:00-9:30 pm	Th	HEc 208	Flynn
590-3		Philosophy of Language			
	1	7:00-9:30 pm	W	HEc 208	Clarke
590-3		Existentialism			
	2	7:00-9:30 pm	Th	HEc 208	Flynn
590-3		Pre-Socratic Philosophers			
	3	7:00-9:30 pm	Tu	HEc 211	McKenzie
590-3		Medieval Philosophy			
	1	4:00-6:30 pm	F	HEc 208	Kelly
590-3		Santayana			
	2	4:00-6:30 pm	M	HEc 208	Leys
591-1 to 5		Readings in Philosophy			
	1	1	To be arranged	HEc 209	Hahn
599-2 to 9		Thesis			
	1	1	To be arranged	HEc 209	Hahn
600-2 to 12		Dissertation			
	1	1	To be arranged	HEc 209	Hahn

<sup>1</sup> Cross-listed with Anthropology and Sociology.<sup>2</sup> Cross-listed with Foreign Languages.<sup>3</sup> Cross-listed with Journalism.<sup>4</sup> Cross-listed with Higher Education.<sup>5</sup> Cross-listed with Educational Administration and Supervision.

## PHYSICAL EDUCATION FOR MEN (PEM)

100a-1	Methods of Teaching Swimming						
1		12:00-12:50	M	W	F	Pool	Essick
2		8:00-8:50 pm	MTu	Th		Pool	Essick
	1	11:00-11:50	M	W	F	Pool	Essick
	2	12:00-12:50	M	W	F	Pool	Essick
	1	8:00-8:50	M	W	F	Pool	Essick
	2	9:00-9:50	M	W	F	Pool	Essick
100b-1	Methods of Teaching Golf						
1 <sup>1</sup>		8:00-9:50		Th		Arena	Holder
2 <sup>1</sup>		8:00-9:50		Tu	F	Arena	Holder
	1	8:00-8:50	M	W		Arena	Holder
	2	8:00-8:50		Tu	Th	Arena	Holder
100c-1	Methods of Teaching Tennis						
1 <sup>1</sup>		8:00-9:50	M		Th	Tennis	LeFevre
2 <sup>1</sup>		8:00-9:50		Tu	F	Tennis	LeFevre
	1	8:00-8:50	M	W		Tennis	LeFevre
	2	8:00-8:50		Tu	Th	Tennis	LeFevre
100d-1	Methods of Teaching Individual and Team Activity						
1 <sup>1</sup>		8:00-8:50	MTuWTh			Arena	
2 <sup>1</sup>		9:00-9:50	MTuWTh			Arena	Knowlton
	1	9:00-9:50	M	W	F	Arena	Wilkinson
	2	12:00-12:50	M	W	F	Arena	
100e-1	Methods of Teaching Basic Rhythms						
1	1	10:00-10:50	M	W	F	Arena	Franklin
	1	8:00-8:50	M	W	F	Arena	Franklin
	2	9:00-9:50	M	W	F	Arena	Franklin



Course No.—	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				
100f-1	Methods of Teaching Exercise					
1			12:00-12:50	M	Arena 123	
			12:00-12:50	W F	Arena	
	1		10:00-10:50	M W	Arena	
			10:00-10:50	F	Arena 125	
	2		12:00-12:50	M W	Arena	
			12:00-12:50	F	Arena 125	
	1		11:00-11:50	M	Arena	
			11:00-11:50	Tu Th	Arena 125	
100g-2	Methods of Teaching Football					
1 <sup>1</sup>			1:00-3:30	M W	Field	Mills
2 <sup>1</sup>			1:00-3:30	Tu Th	Field	
	1		1:00-2:50	M W	Field	Mills
	2		1:00-2:50	Tu Th	Field	
100h-2	Methods of Teaching Basketball					
1	1		11:00-11:50	MTuWTh	Arena	Iubelt
2			12:00-12:50	MTuWTh	Arena	Iubelt
	1		11:00-11:50	MTuWTh	Arena	Holder
100i-2	Methods of Teaching Baseball					
1	1		1:00-2:50	M W	Field	Lutz
2	2		1:00-2:50	Tu Th	Field	Lutz
100j-2	Methods of Teaching Track and Field					
1			12:00-12:50	MTuWTh	Field	Hartzog
2			1:00-1:50	MTuWTh	Field	Hartzog
	1		1:00-2:50	Tu Th	Field	Hartzog
100k-2	Methods of Teaching Gymnastics					
1	1		8:00-8:50	MTuWTh	Arena	Meade
1	2	1	9:00-9:50	MTuWTh	Arena	Meade
100m-2	Methods of Teaching Wrestling					
1	1		10:00-10:50	MTuWTh	Arena	Wilkinson
	1		8:00-8:50	MTuWTh	Arena	Wilkinson
	2		9:00-9:50	MTuWTh	Arena	Wilkinson
101-2	Orientation Practicum in Physical Education					
1			1:00-1:50	W F	Arena 123	Martin
2			12:00-12:50	Tu Th	Arena 123	Martin
3			12:00-12:50	W F	Arena 123	Martin
	1		1:00-1:50	M W	Arena 123	Martin
	2		1:00-1:50	Tu Th	Arena 123	Martin
170-2	Varsity Football					
1			3:00-3:50	MTuWThF	Field	Rainsberger
171-2	Varsity Basketball					
1			3:00-3:50	MTuWThF	Arena	Hartman
172-2	Varsity Track					
1			3:00-3:50	MTuWThF	Stadium	Hartzog
173-2	Varsity Tennis					
1			3:00-3:50	MTuWThF	Tennis	LeFevre
174-2	Varsity Gymnastics					
1			3:00-3:50	MTuWThF	Arena	Meade
175-2	Varsity Baseball					
1			3:00-3:50	MTuWThF	Field	Lutz
176-2	Varsity Golf					
1			3:00-3:50	MTuWThF	Arena	Holder
177-2	Varsity Swimming					
1			4:00-4:50	MTuWThF	Pool	Essick
178-2	Varsity Cross Country					
1			3:00-3:50	MTuWThF	Field	Hartzog
179-2	Varsity Wrestling					
1			3:00-3:50	MTuWThF	Arena	Wilkinson
303-5 <sup>2</sup>	Kinesiology					
1			11:00-11:50	MTuWThF	Arena 125	Knowlton
	1		11:00-11:50	MTuWThF	Arena 125	
		1	8:00-8:50	MTuWThF	Gym 204	Thorpe
		2	9:00-9:50	MTuWThF	Arena 125	Knowlton
305-2	Physical Education for the Atypical Student					
						GSA 301, Phsl 300
1	1		10:00-10:50	Tu Th	Arena 125	Greene
			10:00-10:50	Tu Th	Arena 125	Okita
317-1 <sup>2</sup>	Life Saving and Water Safety					
	1		8:00-8:50 pm	MTu Th	Pool	
	2		3:00-3:50	M W F	Pool	
330a-2	Theory of Basketball Coaching					
1			10:00-10:50	M W	Arena 125	Hartman
	1		8:00-8:50	Tu Th	Arena 125	Hartman
330b-2	Theory of Football Coaching					
1		4	1:00-1:50	MTu	Arena 123	Rainsberger
			1:00-1:50	W	Ag 148	
	1		10:00-10:50	M W	Arena 125	Rainsberger

Course No.—Hours		Descriptive Title		Days		Place		Prerequisite
Fall	Winter	Spring	Time					Instructor
331b-2			<b>Theory of Baseball Coaching</b>					<b>100i</b>
	1		2:00-2:50	Tu	Th	Arena 125		Lutz
331c-2			<b>Theory of Track and Field Coaching</b>					<b>100j</b>
	1		8:00-8:50	Tu	Th	Arena 125		Hartzog
331e-2			<b>Theory of Tennis Coaching</b>					<b>100c</b>
	1		1:00-1:50	M	W	Arena 123		LeFevre
341-3			<b>Principles of Physical Education</b>				<b>Senior standing</b>	<b>GSA 301</b>
	1		2:00-2:50	MTuW		Arena 123		Shea
		1	9:00-9:50	M	W	F	Arena 125	Shea
		1	11:00-11:50	M	W	F	Arena 125	Shea
350-3			<b>Methods and Materials of Teaching Physical Education in Elementary School</b>					
	1		9:00-9:50	MTuWTh		Arena 125		Franklin
		1	9:00-9:50			F	Arena 119	Franklin
			10:00-10:50	M	W		Arena 125	Franklin
			10:00-10:50			Th	Arena 119	
		1	1:00-1:50	MTuWTh		Arena 125		Franklin
354-3			<b>Organization and Administration of Physical Education and Athletics</b>				<b>Senior standing</b>	
	1		3:00-3:50	MTuW		Arena 123		Shea
		1	2:00-2:50	M	W	F	Arena 125	Shea
		1	8:00-8:50	M	W	F	Arena 125	Stotlar
355-2			<b>Assisting Techniques</b>				<b>Junior standing</b>	
	1	1	10:00-10:50			F	Arena 125	
		1	8:00-8:50			F	Arena 125	
355-2			<b>Laboratory</b>				<b>Junior standing</b>	
	1	1	To be arranged					
370-4 <sup>2</sup>			<b>Tests and Measurements in Physical Education</b>				<b>GSA 301</b>	
							<b>Phsl 300</b>	
	1		8:00-8:50	MTuWTh		Gym 204		West
	2		8:00-8:50	MTuWTh		Arena 125		Franklin
		1	1:00-1:50	MTuWTh		Arena 125		Franklin
		1	12:00-12:50	MTuWTh		Arena 123		Franklin
376-3			<b>Care and Prevention of Athletic Injuries</b>				<b>PEM 303</b>	
							<b>and Phsl 300</b>	
	1	1	12:00-12:50	MTuWTh		Arena 125		Spackman
400-4 <sup>2</sup>			<b>Evaluation in Physical Education (plus 4 extra sessions)</b>					
	1		7:00-9:30 pm	Tu		Gym 204		West
402-2 <sup>2</sup>			<b>Organization and Administration of Intramural and Extramural Activities</b>					
	1		7:00-9:30 pm	Tu		Arena 125		Wilkinson
404-4			<b>Teaching of Sports</b>					
	1		2:00-2:50	M	W	Arena 125		Wilkinson
406-4 <sup>2</sup>			<b>Basic Concepts in Physical Education (plus 4 extra sessions)</b>					
	1		7:00-9:30 pm		Th	Arena 125		Shea
408-4 <sup>2</sup>			<b>Physical Fitness: Its Role and Application in Education (plus 4 extra sessions)</b>					
	1		7:00-9:30 pm		W	Arena 125		Weber
420-4 <sup>2</sup>			<b>Physiological Effects of Motor Activity (plus 4 extra sessions)</b>				<b>GSA 301</b>	
	1		7:00-9:30 pm		Th	Arena 125		Knowlton
	2 <sup>3</sup>		1:00-1:50	MTuWTh		Arena 125		Weber
		1 <sup>3</sup>	2:00-2:50	MTuWTh		M 210		
		1 <sup>3</sup>	2:00-2:50	MTuWTh		Arena 125		Weber
500-4 <sup>2</sup>			<b>Techniques of Research</b>					
	1		7:00-9:30 pm	M		Gym 204		Zimmerman
501-4 <sup>2</sup>			<b>Curriculum in Physical Education</b>					
	1		7:00-9:30 pm	M		Gym 204		Davies
502-4 <sup>2</sup>			<b>Foundations of Motor Skills</b>					
	1		7:00-9:30 pm	M		Gym 204		Zimmerman
503-4 <sup>2</sup>			<b>Seminar in Physical Education</b>					
	1		7:00-9:30 pm		Th	Arena 125		Shea
504-4 <sup>2</sup>			<b>Problems in Physical Education</b>				<b>500</b>	
	1	1	To be arranged					
508-3			<b>Administration of Interschool Athletics</b>					
	1		7:00-9:30 pm	Tu		Arena 125		Wilkinson
510a-2 <sup>2</sup>			<b>Motor Development</b>					
	1		7:00-9:00 pm		W	Gym 204		Potter
525-1 to 5 <sup>2</sup>			<b>Readings in Physical Education</b>					
	1	1	To be arranged					
599-6 to 9 <sup>2</sup>			<b>Thesis</b>					
	1	1	To be arranged					
600-1 to 12 <sup>2</sup>			<b>Dissertation</b>					
	1	1	To be arranged					

<sup>1</sup> Meets first nine weeks.<sup>2</sup> Cross-listed with Physical Education for Women.<sup>3</sup> Undergraduate only.

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time		Instructor

# PHYSICAL EDUCATION FOR WOMEN (PEW)

113-1 <sup>1</sup>	Fundamentals of Body Movement					
1		11:00-11:50	M W F	Gym 207		
2		2:00-2:50	M W F	Gym 207		
114-1 <sup>1</sup>	Speedball					
1		12:00-1:50	Tu Th	Gym 208		
2		1:00-2:50	Tu Th	Gym 208		
211-1 <sup>1</sup>	Intermediate Swimming					Pass swim test
1		2:00-2:50	M W F	Pool		
212-1 <sup>1</sup>	Beginning Contemporary Dance					
1		11:00-11:50	M W F	Gym 208		
2		2:00-2:50	M W F	Gym 208		
222-1 <sup>1</sup>	Folk Dance					
1		12:00-12:50	M W F	Gym 207		
2		1:00-1:50	M W F	Gym 114		
224-1 <sup>1</sup>	Basketball					
1		10:00-11:30	Tu Th	Gym 207		
2		11:00-12:30	Tu Th	Gym 207		
228-1 <sup>1</sup>	Tennis					
1		10:00-11:15	Tu Th	Gym 207		Potter
2		2:00-3:15	M W	Gym 207		Davidson
242-1 <sup>1</sup>	Square and Social Dance					
1		10:00-10:50	M W F	Gym 114		Dakak
2		11:00-11:50	M W F	Gym 114		Dakak
244-1 <sup>1</sup>	Hockey					
1		11:00-12:30	Tu Th	Gym 208		Davidson
2		2:00-3:30	Tu Th	Gym 208		Brechtels- bauer
273-1	Dance Workshop (public performance required)					
1	1	7:00-9:00 pm	Tu	Gym 208		Intravaia
273-1 to 2	Dance Workshop (public performance required)					
1		7:00-9:00 pm	Tu	Gym 208		Intravaia
317-1 <sup>2</sup>	Life Saving					Intermediate swimming
1		3:00-3:50	M W F	Pool		Posgay
2		8:00-8:50 pm	MTu Th	Pool		
377-1	Horseback Riding (fee required)					
1		11:00-12:30	Tu	Stables		Dakak
378-1	Canoeing and Boating (fee required)					Pass swim test
1		10:00-11:30	W	Lake		Young
Professional Physical Education						
303-5 <sup>2</sup>	Kinesiology					Phys 300
1	1	8:00-8:50	MTuWThF	Gym 204		Thorpe
1	1	11:00-11:50	MTuWThF	Arena 125		
2		9:00-9:50	MTuWThF	Arena 125		Knowlton
304a-2	Techniques of Teaching Soccer and Volleyball					114
1		3:00-4:15	Tu Th	Gym 208		Thorpe
304b-2	Techniques of Teaching Hockey and Speedball					244
1		3:00-4:15	M W	Gym 208		Young
304c-2	Techniques of Teaching Basketball					224
1		1:00-1:50	M W	Gym 207		West
304d-2	Techniques of Teaching Tumbling and Gymnastics					
1		1:00-1:50	Tu ThF	Gym 207		Stehr
304e-2	Techniques of Teaching Softball and Tennis					228
1		10:00-11:15	W F	Gym 207		Potter
308-5	Methods of Teaching Dance					212, 222
1		8:00-8:50	MTuWThF	Gym 114		Davies
311a-1	Theory of Officiating Basketball					
1		9:00-9:50	F	Gym 204		Thorpe
311b-1	Theory of Officiating Basketball					311a
1		9:00-9:50	F	Gym 204		Thorpe
312-4	History and Philosophy of Dance					
1		7:00-9:30 pm	M W	Gym 206		Intravaia
313-4	Dance Production					
1		2:00-2:50	MTuWTh	Gym 204		Dakak
319-4	Teaching Elementary School Group Activities					Guid 305 or Psyc 301
1		8:00-8:50	MTu ThF	Gym 207		
2		9:00-9:50	MTu ThF	Gym 207		
1	1	11:00-11:50	MTuWTh	Gym 208		
2	2	2:00-2:50	MTuWTh	Gym 208		
2	3	3:00-3:50	MTuWTh	Gym 208		
3	3	4:00-5:30	Tu Th	Gym 208		
350-5	Materials and Methods in Elementary School					
1		1:00-1:50	MTuWThF	Gym 207		Stehr



Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring			
351-4	Physical Education for the Atypical Student				
1		9:00-9:50	MTuWTh	Gym 204	Davies
352-2	History of Physical Education (1st 6 weeks of quarter)				
1		9:00-9:50	MTuWTh	Gym 204	Davies
353-4	Organization and Administration of Physical Education				354
1		9:00-9:50	MTuWTh	Gym 204	Davies
354-2	Principles of Physical Education (last 6 weeks of quarter)				
1		9:00-9:50	MTuWTh	Gym 204	Davies
355-3	Techniques of Teaching Swimming				Pass intermediate swim
	1	3:00-3:50	M W F	Pool	Young
370-4 <sup>2</sup>	Tests and Measurements in Physical Education				
1		8:00-8:50	MTuWTh	Gym 204	West
2		8:00-8:50	MTuWTh	Arena 125	Franklin
	1	12:00-12:50	MTuWTh	Arena 123	
	1	1:00-1:50	MTuWTh	Arena 125	
374-1	Advanced Dance				222
	1	12:00-12:50	Tu Th	Gym 114	Stehr
376-1	Preclassic Dance				GSE 113b
	1	3:00-3:50	Tu ThF	Gym 207	Dakak
400-4 <sup>2</sup>	Evaluation in Physical Education				
1		7:00-9:00 pm	Tu	Gym 206	West
402-2 <sup>2</sup>	Organization and Administration of Intramural and Extramural				
1		7:00-9:30 pm	Tu	Arena 125	Wilkinson
404-4	The Teaching of Sports				
1		12:00-12:50	M W	Gym 208	Thorpe
405-4	Current Theories and Practices in the Teaching of Dance				
					Consent of instructor
	1	1:00-1:50	MTuWTh	Gym 206	Intravaia
406-4 <sup>2</sup>	Basic Concepts in Physical Education				
1		7:00-9:00 pm	Th	Arena 125	Shea
408-4 <sup>2</sup>	Physical Fitness—Its Role and Application in Education				
1		7:00-9:30 pm	W	Arena 125	Weber
420-4 <sup>2</sup>	Physiological Effects of Motor Activity				
1		7:00-9:30 pm	Th	Arena 125	Knowlton
475-2 to 4 <sup>2</sup>	Individual Research				
1	1	1	To be arranged		
475a-2 to 4 <sup>2</sup>	Individual Research—Dance				
1	1	1	To be arranged		
475b-2 to 4 <sup>2</sup>	Individual Research—Kinesiology				
1	1	1	To be arranged		
475c-2 to 4 <sup>2</sup>	Individual Research—Measurement				
1	1	1	To be arranged		
475d-2 to 4 <sup>2</sup>	Individual Research—Motor Learning				
1	1	1	To be arranged		
475e-2 to 4 <sup>2</sup>	Individual Research—Physiology of Exercise				
1	1	1	To be arranged		
475f-2 to 4 <sup>2</sup>	Individual Research—History and Philosophy				
1	1	1	To be arranged		
500-4 <sup>2</sup>	Techniques of Research				400
1		7:00-9:00 pm	M	Gym 204	Zimmerman
501-4 <sup>2</sup>	Curriculum in Physical Education				
1		7:00-9:00 pm	M	Gym 204	Davies
502-4 <sup>2</sup>	Foundations of Physical Education				
1		7:00-9:00 pm	M	Gym 204	Zimmerman
503-4 <sup>2</sup>	Seminar in Physical Education				
1		7:00-9:30 pm	Th	Arena 125	Shea
504-4 <sup>2</sup>	Problems in Physical Education				500
1	1	To be arranged			
510a-2 <sup>2</sup>	Motor Development				
1		7:00-9:00 pm	W	Gym 204	Potter
525-1 to 6 <sup>2</sup>	Readings in Physical Education				
1	1	1	To be arranged		
599-6 to 9 <sup>2</sup>	Thesis				
1	1	1	To be arranged		
600-1 to 12 <sup>2</sup>	Dissertation				
1	1	1	To be arranged		

<sup>1</sup> Majors in Women's Physical Education only.<sup>2</sup> Cross-listed with Physical Education for Men.

## PHYSICS (PHYS)

111a-3 <sup>1</sup>	College Physics				Math 150a
					may be taken concurrently
1		11:00-11:50	M W F	P 308	
		11:00-11:50	Tu	P 309	

Course No.—Hours		Descriptive Title		Prerequisite		
Fall	Winter	Spring	Time	Days	Place	Instructor
111b-3	College Physics		111a, Math 150b			
1		11:00-11:50	M W F	P 308		
		11:00-11:50	Tu	P 309		
111c-3	College Physics		111a			
1		11:00-11:50	M W F	P 308		
		11:00-11:50	Tu	P 309		
112a-1	College Physics Laboratory		111a, must be taken concurrently			
1		1:00-3:50	M	P 317		
112b-1	College Physics Laboratory		111b, must be taken concurrently			
1		1:00-3:50	M	P 317		
112c-1	College Physics Laboratory		111c, must be taken concurrently			
1		1:00-3:50	M	P 317		
206a-3	College Physics		Math 111b			
1		10:00-10:50	M W F	P 308		
		10:00-10:50	Tu	P 309		
2		10:00-10:50	M W F	P 308		
		10:00-10:50	Th	P 309		
τ3		10:00-10:50	M WThF	P 308		
4		3:00-3:50	M W F	P 308		
		3:00-3:50	Th	P 309		
5		3:00-3:50	M W F	P 308		
		4:00-4:50	W	P 309		
6		6:00-7:35 pm	Tu Th	P 308		
τ1		10:00-10:50	Tu	P 308		
		11:00-11:50	Tu Th S	P 308		
206b-3	College Physics		206a			
1		10:00-10:50	M W F	P 308		
		10:00-10:50	Tu	P 309		
2		10:00-10:50	M W F	P 308		
		10:00-10:50	Th	P 309		
τ3		10:00-10:50	M W FS	P 308		
		10:00-10:50	S	P 308		
		11:00-11:50	Tu Th S	P 308		
4		3:00-3:50	M W F	P 308		
		3:00-3:50	Th	P 309		
5		3:00-3:50	M W F	P 308		
		4:00-4:50	W	P 309		
206c-3	College Physics		206a			
1		10:00-10:50	MTuW F	P 308		
2		10:00-10:50	M WThF	P 308		
τ1		10:00-10:50	Tu	P 308		
		11:00-11:50	Tu Th S	P 308		
3		3:00-3:50	M W F	P 308		
		3:00-3:50	Th	P 309		
τ4		3:00-3:50	M W F	P 308		
		4:00-4:50	W	P 309		
207a-1	College Physics Laboratory		206a, must be taken concurrently			
1		10:00-12:50	Tu	P 317		
2		10:00-12:50	Th	P 317		
3		10:00-12:50	F	P 317		
4		3:00-5:50	W	P 317		
τ5		3:00-5:50	Tu	P 317		
6		3:00-5:50	Th	P 317		
τ7		4:00-6:50	M	P 317		
8		6:00-8:50 pm	W	P 317		
τ1		8:00-10:50	W	P 317		
207b-1	College Physics Laboratory		206b, must be taken concurrently			
1		10:00-12:50	Tu	P 317		
2		10:00-12:50	Th	P 317		
τ3		10:00-12:50	F	P 317		
4		3:00-5:50	Tu	P 317		
5		3:00-5:50	Th	P 317		
6		4:00-6:50	M	P 317		
τ7		6:00-8:50 pm	W	P 317		
τ1		8:00-10:50	W	P 317		
207c-1	College Physics Laboratory		206c, must be taken concurrently			
τ1		8:00-10:50	W	P 317		
1		10:00-12:50	Tu	P 317		
2		10:00-12:50	Th	P 317		
τ3		10:00-12:50	F	P 317		

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
207c-1 College Physics Laboratory							206c, must be taken concurrently
		4	3:00-5:50	Tu		P 317	
	τ5		3:00-5:50		Th	P 317	
		6	4:00-6:50	M		P 317	
211a-5 University Physics							Math 150b, may be taken concurrently
1			8:00-8:50	M	W F	P 308	
			8:00-9:50	Tu		P 317	
			9:00-9:50	M	Th	P 308	
2			8:00-8:50	M	W F	P 308	
			8:00-9:50		Th	P 317	
			9:00-9:50	TuW		P 308	
3			8:00-8:50	M	W F	P 308	
			8:00-9:50		S	P 308	
			9:00-9:50		ThF	P 309	
	1		12:00-12:50	MTu	Th	P 308	
			1:00-2:50		W	P 317	
			11:00-11:50	M	F	P 309	
4			1:00-1:50	M	W F	P 308	
			1:00-2:50	Tu		P 317	
			2:00-2:50	M	Th	P 308	
5			1:00-1:50	M	W F	P 308	
			1:00-2:50		Th	P 317	
			2:00-2:50	TuW		P 308	
6			6:00-7:25 pm	M	W	P 308	
			6:00-7:50 pm		Th	P 317	
			6:00-7:25 pm	Tu		P 309	
7			6:00-7:25 pm	M	W	P 308	
			6:00-7:50 pm	Tu		P 317	
			6:00-7:25 pm		Th	P 309	
211b-5 University Physics							211a
1			8:00-8:50	M	W F	P 308	
			8:00-9:50	Tu		P 317	
			9:00-9:50	M	Th	P 308	
2			8:00-8:50	M	W F	P 308	
			8:00-9:50		Th	P 317	
			9:00-9:50	TuW		P 308	
3			8:00-8:50	M	W F	P 308	
			8:00-9:50		S	P 317	
			9:00-9:50		ThF	P 309	
	1		12:00-12:50	MTu	Th	P 308	
			11:00-12:50		W	P 317	
			11:00-11:50	M	F	P 309	
4			1:00-1:50	M	W F	P 308	
			1:00-2:50	Tu		P 317	
			2:00-2:50	M	Th	P 308	
5			1:00-1:50	M	W F	P 308	
			1:00-2:50		Th	P 317	
			2:00-2:50	TuW		P 308	
6			6:00-7:25 pm	M	W	P 308	
			6:00-7:50 pm		Th	P 317	
			6:00-7:25 pm	Tu		P 309	
τ7			6:00-7:25 pm	M	W	P 308	
			6:00-7:50 pm	Tu		P 317	
			6:00-7:25 pm		Th	P 309	
211c-5 University Physics							211a
1			8:00-8:50	M	W F	P 308	
			8:00-9:50	Tu		P 317	
			9:00-9:50	M	Th	P 308	
2			8:00-8:50	M	W F	P 308	
			8:00-9:50		Th	P 317	
			9:00-9:50	TuW		P 308	
τ1			12:00-12:50	MTu	Th	P 308	
			11:00-12:50		W	P 317	
			11:00-11:50	M	F	To be arranged	
	3		1:00-1:50	M	W F	P 308	
			1:00-2:50	Tu		P 317	
			2:00-2:50	M	Th	P 308	
4			1:00-1:50	M	W F	P 308	
			1:00-2:50		Th	P 317	
			2:00-2:50	TuW		P 308	
τ5			6:00-7:25 pm	M	W	P 308	
			6:00-7:50 pm		Th	P 317	
			6:00-7:25 pm	Tu		P 309	
300-5 <sup>2</sup> University Physics							111, 206, or 211
1	1	1	3:00-3:50	TuW	F	P 309	
			3:00-4:50		Th	P 301	
			3:00-4:50	M		P 302	



Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time	
2	2	2	3:00–3:50	TuW F P 309
			3:00–4:50	Th P 301
			4:00–5:50	W P 302
301–3	Mechanics I			111a, 206a, or 211a, Math 305a, may be taken concurrently with consent of department
	1		11:00–11:50	MTu Th P 301
304–3	Thermodynamics			111, 206 or 211, Math 252b
1			12:00–12:50	M W F P 301
305a–3	Introduction to Electric Theory I			111, 206 or 211, Math 305a, may be taken concurrently with consent of department
1			2:00–2:50	M W F P 309
305b–3	Introduction to Electric Theory II			305a
1			2:00–2:50	M W F P 309
307–2	Electrical Measurements			305b
	1		2:00–4:50	Tu Th P 318
	2		2:00–4:50	M W P 318
309–3	Electric Circuits			111, 206 or 211
1			1:00–1:50	M W F P 309
310–3	Light			111, 206 or 211
1			3:00–3:50	M W F P 301
311–1	Optics Laboratory			310, must be taken concurrently
	1		2:00–4:50	Tu P 302
	2		2:00–4:50	Th P 302
312–2	Electric Circuits Laboratory			309
	1		2:00–4:50	Tu Th P 318
	2		2:00–4:50	M W P 318
401–3	Mechanics II			301, Math 407, may be taken concurrently
1			2:00–2:50	M W F P 301
404a–3	Physical Electronics I			304, 305, 401, consent of department
1			1:00–1:50	M W F P 301
404b–3	Physical Electronics II			404a
1			1:00–1:50	M W F P 309
405–3	Electronics			305, 309
1			10:00–10:50	M W F P 309
410a–3	Electromagnetic Wave Theory			305, 310
1			1:00–1:50	M W F P 309
410b–3	Electromagnetic Wave Theory II			410a
	1		11:00–11:50	M Ag 144
			11:00–11:50	W F P 301
415a–3	Modern Physics I			301, 305, Math 407, consent of department
1			8:00–8:50	M W F P 309
415b–3	Modern Physics II			Consent of department
1			8:00–8:50	M W F P 309
415c–3	Modern Physics III			Consent of department
1			9:00–9:50	M W F P 309
418–1 to 4	Modern Physics Laboratory			Consent of department
1	1	1	To be arranged	
420–2 to 5	Special Projects			301, 305
1	1	1	To be arranged	
504a–4 <sup>3</sup>	X-Ray Diffraction and Lattice Dynamics I			
1			11:00–11:50	M W Tech B109
			10:00–11:50	Th Tech B109
504b–4 <sup>3</sup>	X-Ray Diffraction and Lattice Dynamics II			
1			11:00–11:50	M W Tech B109
			10:00–11:50	Th Tech B109
504c–4 <sup>3</sup>	X-Ray Diffraction and Lattice Dynamics III			
1			11:00–11:50	M W Tech B109
			10:00–11:50	Th Tech B109
510a–3	Classical Mechanics I			401
1			9:00–9:50	M W F P 301
510b–3	Classical Mechanics II			510a, consent of department
1			9:00–9:50	M W F P 301
510c–3	Classical Mechanics III			510a, consent of department
1			9:00–9:50	M W F To be arranged
511a–3	Mathematical Methods of Physics I			Math 407, consent of department
1			3:00–3:50	M W F P 301
511b–3	Mathematical Methods of Physics II			511a, consent of department
1			2:00–2:50	M W F P 301
511c–3	Mathematical Methods of Physics III			511a, consent of department
1			3:00–3:50	M W F P 301

## 170 PHYSICS (PHYS)

Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
520-2 to 5			Special Projects			Consent of department	
1			To be arranged			P 301	
530a-3			Electromagnetic Theory I			305	
1			9:00-9:50	Tu	Th S	P 301	
530b-3			Electromagnetic Theory II			530a, consent of department	
1			8:00-9:50	M	W F	P 301	
531a-3			Quantum Mechanics I			415, Math 407, consent of department	
1			10:00-10:50	M	W F	P 301	
531b-3			Quantum Mechanics II			531a, Math 407, consent of department	
1			10:00-10:50	M	W F	P 301	
531c-3			Quantum Mechanics III			531a, Math 407, consent of department	
1			10:00-10:50	M	W F	P 301	
532a-3			Advanced Quantum Mechanics I			531, Math 407, consent of department	
1			To be arranged				
532b-3			Advanced Quantum Mechanics II			532a, Math 407, consent of department	
1			To be arranged				
532c-3			Advanced Quantum Mechanics III			532a, Math 407, consent of department	
1			To be arranged				
540a-3			Nuclear Physics I			Consent of department	
1			To be arranged				
540b-3			Nuclear Physics II			Consent of department	
1			To be arranged				
540c-3			Nuclear Physics III			Consent of department	
1			To be arranged				
550a-3			Atomic and Molecular Spectra I			Consent of department	
1			To be arranged				
550b-3			Atomic and Molecular Spectra II			Consent of department	
1			To be arranged				
550c-3			Atomic and Molecular Spectra III			Consent of department	
1			To be arranged				
560a-3			Statistical Mechanics I			Consent of department	
1			10:00-10:50	Tu	Th S	P 301	
560b-3			Statistical Mechanics II			Consent of department	
1			12:00-12:50	M	W F	P 301	
560c-3			Statistical Mechanics III			Consent of department	
1			12:00-12:50	M	W F		
570a-3			Solid State Physics I			Consent of department	
1			To be arranged				
570b-3			Solid State Physics II			Consent of department	
1			To be arranged				
570c-3			Solid State Physics III			Consent of department	
1			To be arranged				
575-1 to 4			Graduate Seminar			Consent of department	
1	1	1	To be arranged				
580-3 to 6			Selected Topics in Physics			Consent of department	
1	1	1	To be arranged				
590-1 to 9			Thesis			Consent of department	
1	1	1	To be arranged				

<sup>1</sup> For Freshmen Only.<sup>2</sup> Cross-listed as Applied Science 300.<sup>3</sup> Cross-listed as Applied Science 504.

## PHYSIOLOGY (PHSL)

300-4			Human Anatomy				
1	1		11:00-11:50	MTuWTh	LS G16	Foote	
300n-4			Human Anatomy				
	1		11:00-11:50	M	Ag 166	Foote	
			11:00-11:50	Tu Th	LS 323		
			11:00-11:50	W	L 131		
			1:00-2:50	Tu	LS G18		
	2		11:00-11:50	M	Ag 166	Foote	
			11:00-11:50	Tu Th	LS 323		
			11:00-11:50	W	L 131		
			8:00-9:50	W	LS G18		
	3		11:00-11:50	M	Ag 166	Foote	
			11:00-11:50	Tu Th	LS 323		
			11:00-11:50	W	L 131		
			10:00-11:50	F	LS G18		

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time	Instructor
315a-5	Advanced College Physiology			Junior standing
1	8:00-8:50	M W F	LS 113	Kaplan
	8:00-9:50	Tu Th	LS 113	
315b-5	Advanced College Physiology			Junior standing
1	8:00-8:50	M W F	LS 113	Kaplan
	8:00-9:50	Tu Th	LS 113	
315c-5	Advanced College Physiology			Junior standing
1	8:00-8:50	M W F	LS 113	Kaplan
	8:00-9:50	Tu Th	LS 113	
410a-5	Advanced Anatomy			Consent of department
1	2:00-3:50	M WThF	LS G18	
410b-5	Advanced Anatomy			Consent of department
1	2:00-3:50	M WThF	LS G18	
410c-5	Advanced Anatomy			Consent of department
1	2:00-3:50	M WThF	LS G18	
414-4 <sup>1</sup>	Anatomy and Physiology of Speech			Junior standing
1	10:00-10:50	MTu Th	LS 113	Kaplan
	10:00-11:50	F	LS 118	
415a-4	Experimental Animal Surgery			Junior standing
1	10:00-11:50	M W F	LS 118	Kaplan
415b-4	Experimental Animal Surgery			Junior standing
1	10:00-11:50	M W F	LS 118	Kaplan
417a-3	Principles of Pharmacology			Junior standing
1	11:00-11:50	M W	LS 205	Gass
	11:00-12:50	F	LS 205	Gass
417b-3	Principles of Pharmacology			Junior standing
1	11:00-11:50	M W	LS 205	Gass
	11:00-12:50	F	LS 205	Gass
430a-4	Cellular Physiology			Junior standing
1	11:00-11:50	Tu Th S	LS 205	Dunagan
	2:00-3:50	Tu	LS 120	
430b-4	Cellular Physiology			Junior standing
1	11:00-11:50	Tu Th S	LS 205	Dunagan
	2:00-3:50	Tu	LS 120	
430c-4	Cellular Physiology			Junior standing
1	11:00-11:50	Tu Th S	LS G16	Dunagan
	2:00-3:50	Tu	LS 120	
433-4	Comparative Physiology			Junior standing
1	1:00-1:50	M W F	LS G16	Miller
	2:00-3:50	M	LS 120	Miller
450-4	Special Problems in Physiology			Consent of department
1	1	1	2:00-3:50	M W F
			8:00-9:50	S
				LS all labs.
460a-4	Mammalian Physiology			Graduates only
1	8:00-8:50	M W F	LS 113	Kaplan
	8:00-9:50	Tu Th	LS 113	
460b-4	Mammalian Physiology			Graduates only
1	8:00-8:50	M W F	LS 113	Kaplan
	8:00-9:50	Tu Th	LS 113	
460c-4	Mammalian Physiology			Graduates only
1	8:00-8:50	M W F	LS 113	Kaplan
	8:00-9:50	Tu Th	LS 113	
465a-3	Biophysics			Junior standing
1	9:00-9:50	M W	Ag 224	Richardson
	9:00-9:50	F	Ag 166	
465b-3	Biophysics			Junior standing
1	9:00-9:50	M W	Ag 166	Richardson
	9:00-9:50	F	Ag 148	
500-1	Advanced Seminar			
1	1	1	10:00-10:50	S
				LS G16
519-3	Experimental Pharmacology			
1	11:00-11:50	M W	LS G16	Gass
	11:00-12:50	F	LS G16	Gass
520a-3	Physiological Techniques			
1	8:00-8:50	Tu Th	LS G16	Dunagan
	8:00-9:50	S	LS 120	
520b-3	Physiological Techniques			
1	8:00-8:50	Tu Th	Ag 166	Dunagan
	8:00-9:50	S	LS 120	
521-2	Readings in Current Physiological Literature			
1	1	1	7:35-9:15 pm	Tu
				LS G16
				Miller
540a-4	Advanced Comparative Physiology			
1	1:00-1:50	M W F	LS G16	Miller
	2:00-3:50	M	LS 120	Miller



Course No.—Hours		Descriptive Title		Days			Place		Prerequisite Instructor
Fall	Winter	Spring	Time						
<b>540b-4 Advanced Comparative Physiology</b>									
	1	1:00-1:50		M	W	F	LS G16		Miller
		2:00-3:50		M			LS 120		Miller
<b>550-3 Radiation Biology</b>									
	1	8:00-8:50		Tu	Th		LS G16		Dunagan
		8:00-9:50				S	1008 So. Eliz.		St.
<b>565-3 Biophysics</b>									
	1	9:00-9:50		M	W	F	Ag 214		Richardson
<b>599-3 Thesis</b>									
	1	1	3:00-4:50		MTuWThF		LS all labs		
<b>600-4 to 6 Dissertation</b>									
	1	1	3:00-4:50		MTuWThF		LS all labs		

<sup>1</sup> Cross-listed with Speech 414.

### PLAN 'A' (PLA)

<b>151a-3 Honors Seminar</b>									
	1	6:30-8:30 pm		Tu			807 S. Oakland		
<b>151b-3 Honors Seminar</b>									
	1	6:30-8:30 pm		Tu			807 S. Oakland		
<b>151c-3 Honors Seminar</b>									
	1	6:30-8:30 pm		Tu			807 S. Oakland		
<b>251a-3 Honors Seminar</b>									
	1	6:30-8:30 pm		M			807 S. Oakland		
<b>251b-3 Honors Seminar</b>									
	1	6:30-8:30 pm		M			807 S. Oakland		
<b>251c-3 Honors Seminar</b>									
	1	6:30-8:30 pm		M			807 S. Oakland		
<b>351a-3 Honors Seminar</b>									
	1	6:30-8:30 pm		W			807 S. Oakland		
<b>351b-3 Honors Seminar</b>									
	1	6:30-8:30 pm		W			807 S. Oakland		
<b>351c-3 Honors Seminar</b>									
	1	6:30-8:30 pm		W			807 S. Oakland		
<b>391a-3 Honors Seminar</b>									
	1	6:30-8:30 pm		Th			807 S. Oakland		
<b>391b-3 Honors Seminar</b>									
	1	6:30-8:30 pm		Th			807 S. Oakland		
<b>391c-3 Honors Seminar</b>									
	1	6:30-8:30 pm		Th			807 S. Oakland		

### PLANT INDUSTRIES (PLI)

<b>103-4 Introductory Study of Soils</b>									
	1	1	2:00-2:50		MTuWTh		Ag 168		Caster
	2	2	4:00-4:50		MTuWTh		Ag 168		Caster
<b>264-4 General Horticulture</b>									
	1		8:00-8:50		MTuW		Ag 168		Hillyer
			8:00-9:50			F	Ag 181		Hillyer
	2		8:00-8:50		MTuW		Ag 168		Hillyer
			10:00-11:50			F	Ag 181		Hillyer
	T3		8:00-8:50		MTuW		Ag 168		Hillyer
			1:00-2:50			F	Ag 181		Hillyer
	1		10:00-10:50		MTu	F	Ag 225		Hillyer
			10:00-11:50		W		Ag 181		Hillyer
	2		10:00-10:50		MTu	F	Ag 225		Hillyer
			1:00-2:50		W		Ag 181		Hillyer
<b>301-4<sup>1</sup> Soil Science for Foresters</b>									
	1		12:00-12:50		MTu	Th	Ag 214		Jones
			12:00-1:50		W		Ag 167		Jones
	2		12:00-12:50		MTu	Th	Ag 214		Jones
			9:00-10:50		W		Ag 167		Jones
<b>302-4 Advanced Soil Science</b>									
	1		1:00-1:50		M	W	F	Ag 214	Vavra
			1:00-2:50		Tu			Ag 167	Vavra
	2		1:00-1:50		M	W	F	Ag 214	Vavra
			1:00-2:50			Th		Ag 167	Vavra
<b>304-3 Landscape Gardening</b>									
	1		8:00-11:50				S	Ag 195	Rawson
		1	1:00-1:50		MTu			Ag 155	Rawson
			1:00-2:50				F	Ag 195	Rawson
<b>306a-3<sup>2</sup> Soil and Water Conservation (Lecture)</b>									
	1		11:00-11:50		M	W	F	Ag 166	Jones
<b>306b-2<sup>2</sup> Soil and Water Conservation (Laboratory)</b>									
	1		11:00-12:50		Tu	Th		Ag 195	
	2		3:00-4:50		Tu	Th		Ag 195	

One course in soils

306a

Course No.—	Hours	Descriptive Title	Time			Days		Place	Prerequisite
Fall	Winter	Spring							Instructor
309-4	Field	Crop	Production						GSA 201a
1			10:00-10:50	M	W	F	Ag 168		
			10:00-11:50			Th	Ag 171		
	1		1:00-1:50	MTuW			Ag 214		Kapusta
			9:00-10:50			Th	Ag 171		Kapusta
	2		1:00-1:50	MTuW			Ag 214		Kapusta
			1:00-2:50			Th	Ag 171		Kapusta
	1		9:00-9:50	M		F	Ag 166		Elkins
			9:00-9:50			Th	Ag 168		
			8:00-9:50		W		Ag 171		Elkins
	2		9:00-9:50	M		F	Ag 166		Elkins
			9:00-9:50			Th	Ag 168		
			11:00-12:50		W		Ag 171		Elkins
315-4	Plant	Genetics						GSA 201c	
1			3:00-3:50	M	W	F	LS 323		Olah
			3:00-4:50		Tu		LS 315		Olah
2			3:00-3:50	M	W	F	LS 323		Olah
			4:00-5:50			Th	LS 315		Olah
316-4	Small	Fruits						GSA 201b or	
							consent of department		
1			9:00-9:50	M			Ag 174		Blake
			9:00-9:50		W	Th	Ag 170		
			9:00-10:50		Tu		Ag 187		Blake
317-4	Insect	Pests	and Their Control						
1			2:00-2:50	M	W		LS 205		Downey
			1:00-2:50		Tu	Th	LS 213		Downey
2			2:00-2:50	M	W		LS 205		Downey
			3:00-4:50		Tu	Th	LS 213		Downey
320-5	Elements of	Plant Physiology						GSA 201c	
1	1	1	8:00-8:50	M	W	F	LS 323		Schmid
			8:00-9:50		Tu	Th	LS 311		Schmid
2	2	2	8:00-8:50	M	W	F	LS 323		Schmid
			10:00-11:50		Tu	Th	LS 311		Schmid
324-4	Orcharding						264, GSA 201b or		
							consent of department		
1			11:00-11:50	MTu	Th		Ag 154		Mowry
			11:00-11:50			F	Ag 214		
			10:00-11:50		W		Ag 187		Mowry
344-4	General	Floriculture						GSA 201c	
	1		10:00-10:50	MTu		F	Ag 168		Rawson
			10:00-11:50		W		Ag 187		Rawson
381-1	Agricultural	Seminar						Senior standing	
1			4:00-4:50		Tu		Ag 225		Rawson
	1		4:00-4:50		Tu		Ag 214		Wills
		1	4:00-4:50		Tu		Ag 114		Reed
390-1 to 2	Special Studies in	Plant Industries						Consent of department	
1	1	1	9:00-11:50			S	Ag 171		
401-4	Soil	Physics						103 or 301	
	1		3:00-3:50	M		F	Ag 168		Jones
			3:00-3:50		Tu		Ag 154		
			3:00-4:50			Th	Ag 167		Jones
402-4	Soil	Morphology and Classification							
	1		8:00-8:50	MTu	Th		Ag 168		Jones
			8:00-9:50			F	Ag 167		Jones
404-3	Turf	Management						GSA 201, one course in soils or consent of department	
1			10:00-10:50	M	W		Ag 116		Tweedy
			10:00-11:50			F	Ag 171		Tweedy
406-4	Radioisotopes, Principles and Practices						Biochemistry, Phys or consent of department		
	1		8:00-8:50	MTuW			Ag 168		Tweedy
			8:00-9:50			F	Ag 181		Tweedy
407a-3	Fertilizers and soil fertilization (Lecture)						Course in soils		
1			3:00-3:50	M	W	F	Ag 168		Vavra
407b-2	Fertilizers and Soil Fertility (Laboratory)						Consent of department		
		1	2:00-4:50		Th		Ag 167		Vavra
408-4	World	Crop	Production						309
1			2:00-2:50	M	W	F	Ag 214		Leasure
			2:00-3:50		Tu		Ag 171		
415-3	Plant	Breeding						One course in genetics	
	1		4:00-4:50	M		F	Ag 116		Hull
			3:00-4:50		W		Ag 171		Hull
418-4	Weeds and Their Control						GSA 201b or concurrent enrollment		
		1	12:00-12:50	M	W	F	Ag 168		Leasure
			12:00-1:50		Th		Ag 171		

Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				
419-4	Forage Crop Management					GSA 201b
1			12:00-12:50	TuWTh	Ag 168	Elkins
			11:00-12:50	F	Ag 171	Elkins
424a-3 <sup>6</sup>	Soil Microbiology (Lecture)					One course in soils or microbiology
1			1:00-1:50	M W	Ag 168	Vavra
			1:00-1:50	F	Ag 171	Vavra
424b-2 <sup>6</sup>	Soil Microbiology (Laboratory)					424a or consent of department
1			1:00-2:50	Tu Th	Ag 181	Vavra
438-5	Vegetable Crops					264, GSA 201b or equal
1			2:00-2:50	MTuW F	Ag 155	Hillyer
			8:00-9:50	W	Ag 181	Hillyer
440-3	Plant Propagation					264, GSA 201b or consent of department
1			9:00-9:50	MTuW	Ag 181	Rawson
			8:00-9:50	Th	Ag 181	Rawson
455-5 <sup>7</sup>	Plant Pathology					
1			10:00-10:50	M W F	LS 323	Pappelis
			10:00-11:50	Tu Th	To be arranged	Pappelis
	2		10:00-10:50	M W F	LS 323	Pappelis
			8:00-9:50	Tu Th	LS 315	Pappelis
456c-2 <sup>2</sup>	Agricultural Marketing Problems and Practices (Field Crops)					Ag I 354
1			9:00-9:50	Tu Th	Ag 225	Wills
456e-2 <sup>2</sup>	Agricultural Marketing Problems and Practices (Fruits and Vegetables)					
1			1:00-1:50	W F	Ag 225	Haag
507-3	Advance Soil Fertility					407a
1			3:00-3:50	Tu ThF	Ag 155	Vavra
520-1 to 3	Readings					Consent of department
1	1	1	To be arranged			
575-1 to 6	Research (Soils)					Consent of department
1			To be arranged			Ag 167
	1		To be arranged			Ag 167
		1	To be arranged			Ag 167
575-1 to 6	Research (Field Crops)					Consent of department
2			To be arranged			Ag 171
	2		To be arranged			Ag 171
		2	To be arranged			Ag 171
575-1 to 6	Research (Horticultural Crops)					Consent of department
3			To be arranged			Ag 181
	3		To be arranged			Ag 181
		3	To be arranged			Ag 181
581-1	Seminar					
1			4:00-4:50	Tu	Ag 181	Leasure
	1		4:00-4:50	Tu	Ag 181	Vavra
		1	4:00-4:50	Tu	Ag 181	Jones
599-1 to 9	Thesis					
1			To be arranged			
	1		To be arranged			
		1	To be arranged			

<sup>1</sup> Open to Forestry majors only<sup>2</sup> Cross-listed with Agricultural Industries<sup>3</sup> Same as Botany 315, 320<sup>4</sup> Same as Zoology 316 and Animal Industries 316<sup>5</sup> Cross-listed with Agricultural Industries, Animal Industries, and Forestry.<sup>6</sup> Cross-listed with Microbiology<sup>7</sup> Same as Botany 456

## PRINTING AND PHOTOGRAPHY (P & P)

260a-4 <sup>1</sup>	Fundamentals of Photography					
1 <sup>1</sup>			11:00-11:50	M W F	T27 104	
			1:00-2:50	W	Ag 142	
2 <sup>1</sup>			11:00-11:50	M W F	T27 104	
			1:00-2:50	F	Ag 142	
	1	1	11:00-11:50	M W F	T27 104	
			1:00-2:50	W	Ag 142	
	2	2	11:00-11:50	M W F	T27 104	
			1:00-2:50	F	Ag 142	
260b-4	Fundamentals of Photography					
1			9:00-9:50	M W F	T27 104	260a
			3:00-4:50	M	T27 100	



Course No.—Hours		Descriptive Title	Time		Days	Place	Prerequisite Instructor
Fall	Winter	Spring					
260c-4	Fundamentals of Photography						260b
	1	9:00-9:50	M	W	F	T27 104	
		1:00-2:50	M			T27 100	
303-4	Portrait Photography						260b
1		11:00-11:50	Tu	Th		T27 104	Horrell
		1:00-2:50		Th		T27 100	Horrell
308a-4	Photolithography						271b
1		10:00-10:50	M	W		Ag 148	Brown
308b-3	Photolithography						308a
1		10:00-10:50	M	W		Ag 218	Brown
309a-4	Commercial and Illustrative Photography						260c
1		10:00-10:50	Tu	Th		T27 104	
		1:00-2:50	M			T27 100	
309b-4	Commercial and Illustrative Photography						309a
1		10:00-10:50	Tu	Th		T27 104	
		1:00-2:50	M			T27 100	
312-3	Paper						271b
1		8:00-8:50	MTuW			Ag 218	Hall
341a-4	Cinematography						
1 <sup>1</sup>		9:00-9:50	TuWTh			T27 104	Mercer
		12:00-1:50	W			T27 104	Mercer
2 <sup>1</sup>		9:00-9:50	TuWTh			T27 104	Mercer
		2:00-3:50	W			T27 104	Mercer
	1	8:00-8:50	TuWTh			T27 104	Mercer
		1:00-2:50	W			T27 104	Mercer
	2	8:00-8:50	TuWTh			T27 104	Mercer
		3:00-4:50	W			T27 104	Mercer
341b-3	Cinematography						341a
1		1:00-4:50	M			T27 104	Mercer
		1:00-2:50		Th		T27 104	Mercer
341c-3	Cinematography						341b
1		1:00-4:50	Tu			T27 104	Mercer
GSC 348	Photography as Communications and Art (See General Studies Area C for schedule)						
GSC 349	The Cinema (See General Studies Area C for schedule)						
360a-3	Publications Photography						260a
1		10:00-10:50	M	W	F	T27 104	Horrell
		1:00-2:50	Tu			Ag 142	Horrell
360b-3	Publications Photography						360a
1		10:00-10:50	M	W	F	T27 104	Horrell
		2:00-3:50		Th		Ag 142	Horrell
360c-2 to 6	Publications Photography						360a
1	1	9:00-9:50	Tu	Th		T27 104	Horrell
364-3	Picture Editing						
1		11:00-11:50	Tu	Th		T27 104	Horrell
		7:00-9:00 pm	M			Ag 195	Horrell
365-3	Printing Operation Analysis						312
1		8:00-8:50	MTuW			Ag 218	Hall
366-3	Printing Cost Analysis						365, Acct 250
	1	8:00-8:50	M	W		Ag 218	Hall
		8:00-8:50	Tu			Ag 170	
379a-3	Printing Production						366, Mgt 340
1		11:00-11:50	MTuW			Ag 148	Hall
379b-3	Printing Production						379a
1		11:00-11:50	M	W		M 202	Hall
		11:00-11:50	Tu			M 301	
379c-3	Printing Production						379b
1		9:00-9:50	MTuW			Comm 214	Hall
381a-4	Estimating						366
1		9:00-9:50	M	W		Comm 214	Hall
		9:00-9:50	Tu			Comm 120	
381b-4	Estimating						381a
1		9:00-9:50	TuW			Ag 148	Hall
		9:00-9:50	M			Ag 116	
384-3	Seminar in Printing Management						381b
	1	11:00-11:50	M	W		Comm 148	Hall
		11:00-11:50	Tu			Comm 122	
401-3	History of the Cinema						
1		3:00-3:50	M	Th		M 203a	Mercer
		3:00-4:50	Tu			M 203a	Mercer
402-3	History of Still Photography						
	1 <sup>2</sup>	3:00-3:50	M	WTh		T27 104	Horrell
412-1 to 6	Workshop in Cinema Production						Consent of department
	1	1	1	To be arranged			Paine
428-3	Industrial Photographic Unit						Consent of department
	1	10:00-10:50	M	W	F	T27 104	Horrell

Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				

### 431-1 to 6 Problems in Still Photography and Cinematography ..... Consent of department

1 1 1 To be arranged

<sup>1</sup> Open this term to majors only.

<sup>2</sup> Not open to students who have had GSC 345.

### PSYCHOLOGY (PSYC)

211a-4	Principles and Methods of Psychology					GSB 201c
1	1	1	8:00-8:50	M W F	Ag 224	Meltzer
			8:00-9:50	Tu	T142	
2	2	2	8:00-8:50	M W F	Ag 224	Meltzer
			8:00-9:50	Th	T142	
3			12:00-12:50	MTuW	Ag 224	Evanson
			12:00-1:50	Th	T142	
		3	3:00-3:50	TuW F	Ag 224	Evanson
			3:00-4:50	M	T142	
4			12:00-12:50	MTuW	Ag 224	Evanson
			12:00-1:50	F	T142	
		4	3:00-3:50	TuW F	Ag 224	Evanson
			3:00-4:50	Th	T142	
211b-4	Principles and Methods of Psychology					211a
1			9:00-9:50	Tu ThF	Ag 224	Pitz
			9:00-10:50	M	T283	
	1		9:00-9:50	Tu ThF	Ag 224	Pitz
			8:00-9:50	M	T283	
		1	9:00-9:50	M ThF	Ag 224	Pitz
			8:00-9:50	Tu	T283	
2			9:00-9:50	Tu ThF	Ag 224	Pitz
			9:00-10:50	W	T283	
	2		9:00-9:50	Tu ThF	Ag 224	Pitz
			8:00-9:50	W	T283	
		2	9:00-9:50	M ThF	Ag 224	Pitz
			8:00-9:50	S	T283	
	3		3:00-3:50	M W F	Ag 224	Radtke
			3:00-4:50	Tu	T283	
	4		3:00-3:50	M W F	Ag 224	Radtke
			3:00-4:50	Th	T283	
301-4	Child Psychology					GSB 201c
1			8:00-8:50	TuWThF	Ag 216	
2			2:00-2:50	M WThF	L 101	
	1		2:00-2:50	M WThF	P 111	
	2		11:00-11:50	TuWThF	M 201	
		1	8:00-8:50	M WThF	Ag 216	
		2	3:00-3:50	M WThF	M 210	O'Donnell
303-4	Adolescent Psychology					GSB 201c
1			12:00-12:50	MTuWTh	LS 205	
	1		1:00-1:50	MTuWTh	M 301	
304-4	Psychology of Maturity and Old Age					GSB 201c
1			12:00-12:50	MTuWTh	LS G16	
305-4	Psychology of Personality					GSB 201c
1			10:00-10:50	TuWThF	Ag 214	
2			3:00-3:50	M WThF	Ag 214	MacLean
	1		8:00-8:50	MTu ThF	L 201	
	2		3:00-3:50	M WThF	Wham 308	
		1	12:00-12:50	M W F	L 231	
			12:00-12:50	Th	Ag 166	
	2		4:00-4:50	M W	L 121	MacLean
			4:00-4:50	Tu Th	L 101	
307-4	Social Psychology					GSB 201c
1			11:00-11:50	M WThF	M 301	Radtke
	1		4:00-4:50	M WTh	LS G16	
			4:00-4:50	Tu	L 101	
		1	10:00-10:50	TuWThF	M 215	
311-4	Experimental Psychology: Learning					211b and consent of instructor
1			11:00-11:50	MTu Th	Ag 224	Long
			10:00-11:50	W	T142	
	1		3:00-3:50	M W F	Ag 146	Long
			3:00-4:50	Th	T142	
		1	8:00-8:50	TuWTh	Cl 10	Radtke
			8:00-9:50	F	T142	
312-4	Experimental Psychology: Perception					211b
1			10:00-11:50	W	Ag 224	Lit
			10:00-11:50	F	Cl 10	Lit
313-4	Experimental Psychology: Motivation					211b
1			9:00-10:50	M W	Ag 224	McHose

Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor	
Fall	Winter	Spring					
314-4	Experimental Psychology: Comparative and Physiological						211b
	1	11:00-11:50	M W F	Ag 224		Long	
		10:00-11:50	S	T142		Long	
320-4	Industrial Psychology						GSB 201c
1		1:00-1:50	M W F	L 101		Hill	
		1:00-1:50	Th	L 221			
	1	8:00-9:50	Tu Th	P 204		Hill	
	1	9:00-10:50	Tu Th	Ag 214		Hill	
322-4	Personnel Psychology						GSB 201c
	1	10:00-10:50	TuWThF	Ag 214			
	1	2:00-2:50	M WThF	L 101		Hill	
323-4	Psychology of Employee Relations						GSB 201c
	1	11:00-11:50	MTu ThF	L 131		Westberg	
399a-3 to 9	Research and Investigation—Junior Honors						Consent of department
	1	1	1	To be arranged			
399b-3 to 12	Research and Investigation—Senior Honors						Consent of department
	1	1	1	To be arranged			
404-4	Theories of Perception						211b
	1	1:00-2:50	W F	Ag 224		Lit	
406-4	Learning Processes						Consent of instructor
	1	4:00-4:50	MTuWTh	Ag 224		Meltzer	
407-4	Theories of Learning						211b
	1	8:00-8:50	MTuW F	Cl 10		Radtke	
	1	9:00-9:50	MTu ThF	Cl 10		McHose	
408-4	Theories of Motivation						211b
	1	10:00-11:50	M W	Ag 146			
409-4	History and Systems						Consent of department
	1	9:00-9:50	MTuW F	Cl 10		McHose	
421-4	Psychological Tests and Measurements						
	1	8:00-9:50	M W	Ag 146			
	1	8:00-9:50	M	M 102a			
		8:00-9:50	W	M 209			
424-4	Psychophysical Methods						Consent of instructor
	1	1:00-2:50	M W	Cl 10		Lit	
431-4	Psychopathology						305
	1	3:00-4:50	M	M 207		Gerler	
		3:00-4:50	Th	P 308			
	1	10:00-11:50	M	P 204			
		10:00-11:50	Th	P 111			
	1	2:00-2:50	M WThF	LS G16			
440-4	Theories of Personality						305
	1	9:00-9:50	M F	L 171		Schill	
		9:00-9:50	Tu Th	Ag 214			
	1	1:00-1:50	M W F	L 231		Kelley	
		1:00-1:50	Th	Ag 214			
	1	9:00-9:50	M F	Wham 308		Schill	
		9:00-9:50	Tu Th	P 111			
451-4	Advanced Child Psychology						301 or 303
	1	4:00-4:50	M Th	M 305		O'Donnell	
		3:00-4:50	W	Ag 224		O'Donnell	
461-4	Advanced Social Psychology						307
	1	10:00-11:50	M W	Ag 146		Alexander	
465-4	Group Dynamics and Individual Behavior						307
	1	10:00-11:50	Tu	Ag 146		Alexander	
		10:00-11:50	F	Ag 224		Alexander	
490-1 to 16	Independent Projects						
	1	1	1	To be arranged			
495-1 to 18	Seminar: Selected Topics						
	1	1	1	To be arranged			
501a-4	Proseminar in General Psychology I						Consent of instructor
	1	1:00-2:50	M Th	Ag 224			
501b-4	Proseminar in General Psychology II						Consent of instructor
	1	1:00-2:50	M Th	Ag 224			
501c-4	Proseminar in General Psychology III						Consent of instructor
	1	1:00-2:50	M Th	Ag 224			
509-4	Instrumentation in Behavioral Science						Consent of instructor
	1	4:00-5:50	TuW	Ag 224		Meltzer	
512-4	Sensory Processes						Consent of instructor
	1	1:00-2:50	M	Ag 146		Lit	
		1:00-2:50	W	Ag 224		Lit	



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
514a-4			<b>Physiological Psychology</b>			<b>Consent of instructor</b>	
1			3:00-3:50	Tu	F	Ag 224	Long
			3:00-3:50	W		Ag 146	Long
			10:00-11:50		S	T142	Long
514b-4			<b>Physiological Psychology</b>				<b>514a</b>
1			11:00-11:50	M	W	Cl 10	Long
1			10:00-11:50		S	T142	Long
522-4			<b>Research Design and Inference</b>				<b>Math 410b</b>
1			10:00-10:50	M		M 102	Pitz
			10:00-10:50		F	M 303	
			9:00-10:50	W		Ag 224	Pitz
523-2			<b>Research Seminar</b>				<b>522</b>
1			1:00-2:50		F	Cl 10	Chapman
525-4			<b>Mental Test Theory</b>				<b>Consent of instructor</b>
1			1:00-2:50	Tu	Th	Comm 148	
530-4			<b>Personality Theory and Dynamics</b>				<b>Consent of instructor</b>
1			1:00-2:50	W	F	Ag 224	Kelley
532-2			<b>Experimental Approaches to Personality</b>				<b>530</b>
1			9:00-9:50	M	W	Ag 146	Schill
533-3			<b>Experimental Approaches to Psychopathology</b>				<b>Consent of instructor</b>
1			3:00-3:50	Tu		Ag 146	Chapman
			1:00-2:50		F	Cl 10	Chapman
536-4			<b>Fundamentals of Counseling</b>				
1			11:00-11:50	MTuW	F	Ag 224	MacLean
537-4			<b>Counseling and Psychotherapy</b>				<b>530</b>
1			1:00-2:50	W	F	Cl 10	Levitt
538-2			<b>Group Psychotherapy</b>				<b>537</b>
1			3:00-4:50	M		Cl 10	Gerler
541a-4			<b>Psychodiagnostics I</b>				<b>520</b>
1			3:00-4:50	TuW		Comm 148	O'Donnell
			3:00-3:50		F	Cl 10	O'Donnell
543a-4			<b>Psychodiagnostics II</b>				<b>Consent of instructor</b>
1			3:00-4:50	M	W	Cl 10	Rafferty
			3:00-3:50		Th	Cl 10	Rafferty
543b-2			<b>Psychodiagnostics II</b>				<b>543a</b>
1			10:00-10:50	Tu		Comm 214	Schill
			10:00-11:50		Th	Ag 224	Schill
545-2			<b>Psychodiagnostics III</b>				<b>Consent of instructor</b>
1			3:00-4:50	W		Cl 10	Ladd
547-2			<b>Assessment Procedures in Counseling</b>				<b>521</b>
1			9:00-9:50	M	W	Ag 146	
552-4			<b>Experimental Child Psychology</b>				<b>451</b>
1			1:00-2:50	M	W	Cl 10	Rafferty
554-2			<b>Developmental Theory</b>				<b>451</b>
1			3:00-4:50	Tu		Cl 10	O'Donnell
561-4			<b>Social Influence Processes</b>				<b>461 or consent of instructor</b>
1			To be arranged				Alexander
571-4			<b>Industrial Motivation and Morale</b>				<b>320</b>
1			8:00-9:50	Tu		Ag 146	Hill
			8:00-9:50		Th	Cl 10	Hill
573a-2			<b>Employee Selection and Evaluation</b>				<b>Consent of instructor</b>
1			3:00-4:50	Th		Cl 10	
574-2			<b>Psychology of Industrial Relations</b>				<b>571</b>
1			8:00-9:50		F	Cl 10	Hill
576-2 to 4			<b>Human Engineering</b>				<b>Consent of instructor</b>
1			10:00-11:50	W	F	Cl 10	Lit
590-1 to 16 <sup>1</sup>			<b>Readings in Psychology</b>				<b>Consent of instructor</b>
1	1	1	To be arranged				
591-1 to 18 <sup>1</sup>			<b>Research in Psychology</b>				<b>Consent of instructor</b>
1	1	1	To be arranged				
593e-1 to 18 <sup>1</sup>			<b>Practicum in Clinical Psychology</b>				<b>Consent of instructor</b>
1	1		1:00-2:50	Th		Clinic 102F	Levitt
		1	1:00-2:50	Th		Clinic 102F	
2	2		1:00-2:50	Th		Clinic 102F	Shoemaker
		2	1:00-2:50	Th		Clinic 102F	
593h-1 to 18 <sup>1</sup>			<b>Practicum in Industrial Psychology</b>				
1	1	1	To be arranged				Westberg
593j-1 to 18 <sup>1</sup>			<b>Practicum in Child Psychology</b>				<b>Consent of instructor</b>
1	1	1	To be arranged				Rafferty
593l-1 to 18 <sup>1</sup>			<b>Practicum in Teaching of Psychology</b>				
1	1	1	To be arranged				Carrier

Course No.—	Hours	Descriptive Title	Prerequisite
Fall	Winter	Spring	Instructor
Time	Days	Place	
<b>595-1 to 18<sup>1</sup> Advanced Seminar</b>			
1	1	1 To be arranged	Alexander
2	2	2 To be arranged	
		2 To be arranged	
3		10:00-11:50 M W Cl 10	Pitz
	3	9:00-10:50 M W Cl 10	Pitz
		3 1:00-2:50 M Th Cl 10	Evanston
4		7:00-10:00 pm M Cl 10	Meltzer
	4	8:00-9:50 Tu Th Cl 10	Radtke
		4 10:00-11:50 Tu Th Cl 10	Long
5	5	10:00-11:50 Tu Th Cl 10	McHose
		5 10:00-11:50 M W Ag 146	Radtke
	6	To be arranged	Ladd
		6 To be arranged	Chapman
	7	3:00-4:50 M Th Cl 10	Evanston
		7 To be arranged	Shoemaker
<b>598-2 Ethical and Professional Problems in Psychology</b>			<b>Consent of instructor</b>
1		To be arranged	Kelley

<b>599-1 to 9<sup>1</sup> Thesis</b>			
1	1	1 To be arranged	
<b>600-1 to 16<sup>1</sup> Dissertation</b>			
1	1	1 To be arranged	

<sup>1</sup> Unlimited enrollment for any Psychology Graduate student.

## RADIO-TELEVISION (R-T)

<b>161-4 Radio-Television Speaking</b>			
1	1	11:00-11:50 MTuWTh	Comm 110 Richter
2	2	1 3:00-3:50 MTuWTh	Comm 110 Richter
<b>251-3 Survey of Broadcasting</b>			
1	1	8:00-8:50 M W F	Comm 144 Dybvig
		1 3:00-3:50 M W F	Comm 144 Dybvig
<b>252-3 Broadcast Production Analysis</b>			
1	1	10:00-10:50 MTu Th	Comm 144 Robbins
<b>260-3 Audio Control Room Practices</b>			
1	1	1 12:00-12:50 M	Comm 110 Criminger
		12:00-1:50 Tu Th	Comm 110
<b>310-3<sup>1</sup> Radio-TV News</b>			
			Jrnl 103, 202, 303
1	1	1 1:00-1:50 M W F	Comm 110 Dugas
<b>351-5 Programs and Audiences</b>			
			251
1		9:00-9:50 MTuWThF	Comm 144 Dybvig
	1	2:00-2:50 MTuWThF	Comm 144
<b>352-4 Broadcast Laws and Policies</b>			
			251
1		9:00-9:50 MTuWTh	Comm 144
	1	10:00-10:50 MTuWTh	Comm 144
<b>353-2 Radio and TV in Education</b>			
1		12:00-12:50 W F	Comm 144 Richter
<b>355-3 Broadcast Persuasion Factors</b>			
1		3:00-3:50 M W F	Comm 144 Richter
<b>360-3 Radio Announcing</b>			
			161
1		8:00-8:50 M W F	Comm 110 Dugas
	1	4:00-4:50 M W F	Comm 110 Dugas
<b>361-3 Television Announcing</b>			
			161
1		4:00-4:50 M W F	Comm 108 Abady
<b>363-4 Radio Program Production</b>			
			260
1	1	1 10:00-11:50 F	Comm 110 Richter
		7:00-10:00 pm Th	Comm 110
<b>364-4 Television Production</b>			
			252
1		10:00-10:50 MTuWTh	Comm 108 Allen
	1	1:00-1:50 MTuWTh	Comm 108 Allen
		1 9:00-9:50 MTuWTh	Comm 108 Allen
<b>367-3 R-TV Production Survey</b>			
			Non majors
1		1 1:00-1:50 M W F	Comm 144 Dybvig
<b>369-4 Television Directing</b>			
			364
1	1	1 8:00-8:50 Tu Th	Comm 108 Rochelle
		3 hrs. lab to be arranged	
<b>370-2 Films for Television</b>			
1		12:00-12:50 W F	Comm 144 Dybvig
<b>371-3 Techniques of Staging, Lighting, and Graphics for TV</b>			
			364
	1	4:00-4:50 M W	TV Studio Walker
		9:00-11:50 S	TV Studio
<b>373-1 to 2 Advanced Radio Production Laboratory</b>			
			260, 363
1	1	1 4:00-4:50 Tu Th	Comm 144 Criminger
<b>374-1 to 2 Advanced TV Production Laboratory</b>			
			364
1	1	1 5:00-5:50 M	Comm 144 Rochelle

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time		Instructor
375j-1 to 2		Individual Research Problems			Consent of department
1	1	1 1:00-1:50	Th	Comm 144	Dybvig
	1	12:00-12:50	W	Comm 144	Dybvig
375n-1 to 2		Individual Production Problems			Consent of department
1	1	1 1:00-1:50	Tu	Comm 144	Dybvig
	1	12:00-12:50	F	Comm 144	Dybvig
377-3		Radio and TV Advertising			Jrnl 370, 371
1	1	4:00-4:50	M W F	Comm 144	Abady
383-4		Broadcast Writing			363, 364
	1	1 8:00-8:50	M W	Comm 110	Abady
		8:00-9:50	F	Comm 110	
385-1 to 2 <sup>1</sup>		Radio-TV Special Events			310
1	1	10:00-10:50	W	Comm 144	Dugas
		11:00-11:50	Tu	Comm 144	
390-5		Broadcast Station Management			251, 351, 352
1	1	2:00-2:50	MTuWThF	Comm 144	Kurtz
393-3		Radio, Television and Society			251, 351, 352
1	1	1 11:00-11:50	M W F	Comm 144	

<sup>1</sup> Cross-listed with Journalism.

### RECREATION AND OUTDOOR EDUCATION (REC)

201-3		Leisure and Recreation					
1		8:00-8:50	M W F	Wh 113		O'Brien	
	1	8:00-8:50	M W F	M 201		O'Brien	
		8:00-8:50	M W F	Wham 228		O'Brien	
202-3		Programs in Recreation					202
1	1	9:00-9:50	M W F	Wham 308		O'Brien	
		9:00-9:50	M W F	M 102a		O'Brien	
301-4		Outdoor Education					Elementary majors only, open to all
1	1	11:00-11:50	MTuWTh	O. E. Center		Knapp	
	1	10:00-11:50	M	To be arranged		Knapp	
		10:00-11:50	W	Ag 174			
302-3		Institutional Recreation					201, 202
1		10:00-10:50	M W F	M 207			
	1	10:00-10:50	M W F	M 201			
310a-2 to 8		Social Recreation (Techniques)					Rec major or consent of instructor
1	1	10:00-11:50	M W	Comm 114		Taylor	
		10:00-11:50	M W	M 102a		Taylor	
310b-2 to 8		Social Recreation (Dramatics)					Major or consent of instructor
1		10:00-11:50	Tu Th	M 305a		Taylor	
	1	10:00-11:50	Tu Th	Tech A310		Taylor	
310c-2 to 8		Social Recreation (Leisure Crafts)					Major or consent of instructor
	1	3:00-4:50	Tu Th	M 301		Knapp	
310d-2 to 8		Social Recreation (Music and Dance)					Major or consent of instructor
1		7:35-9:00 pm	Th	Large Gym Room		Rillo	
320-3		Nature Interpretation					Major or consent of instructor
1	1	9:00-11:30	S	M 302		Knapp	
330-3		Campcraft					Major or consent of instructor
1	1	11:00-11:50	Tu Th S	Tech A310		Abernathy	
		11:00-11:50	Tu Th S	M 210		Abernathy	
340-3		Activities for Special Population					302
1		1:00-1:50	M W F	M 201		Freeberg	
365-4		Recreation Administration					15 hrs Recreation
	1	10:00-10:50	MTuWTh	M 210		O'Brien	
368-4		Camp Management					15 hrs Recreation
1		5:00-5:50	MTuWTh	M 203b		Rillo	
425-3		Recreation Areas and Facilities					15 hrs Recreation
1		3:00-3:50	MTuWTh	Wham 328		Abernathy	
490-4 to 16		Practicum					Consent of instructor
1	1	To be arranged				Taylor	
500-4		Principles of Recreation					
1	1	6:30-9:00 pm	Tu	M 303		O'Brien	
510-4		Outdoor Education Workshop					
1	1	6:30-9:00 pm	M	M 303		Rillo	
		2 field trips					
520-4		Recreation Administration Workshop					500
1		6:30-9:00 pm	W	M 303		Ridinger	



Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
T525-4					500
1			6:30-9:00 pm	W	M 303 Freeberg
535-4					500
1			6:30-9:00 pm	W	M 303 Ridinger
540-4					500
1			6:30-9:00 pm	Tu	M 302 Taylor
T570-4					Consent of instructor
1			6:30-9:00 pm	Th	Rec Office Taylor
T590-2 to 4					Consent of instructor
1	1	1	To be arranged	Rec Office	Taylor

## REHABILITATION INSTITUTE (RI)

414-1 to 6						Consent of instructor
1	1	1	To be arranged		612 W. Grand	Vieceli
				MTuWThF	612 W. Grand	Dickey
420-4						
1		1	8:00-9:50	W	F	612 W. Grand
						Twomey
480-2						
1	1		1:00-2:50	M		612 W. Grand
481-2						
1			9:00-10:50		S	612 W. Grand
485-4						
1			10:00-11:50	W	F	612 W. Grand
486-4						
1			10:00-11:50	W	F	612 W. Grand
						Campbell
511-2						
1			9:00-10:50	M		612 W. Grand
519-2						
1			9:00-10:50	M		612 W. Grand
521-4						
1			7:35-9:15 pm	M	W	612 W. Grand
526-4						
1			7:35-9:15 pm	Tu	Th	612 W. Grand
531-4						
1			1:00-2:50 pm	W	F	612 W. Grand
533-4						
1			10:00-11:50	W	F	612 W. Grand
535-4						
1			10:00-11:50	W	F	612 W. Grand
						Campbell
537-4						
1			9:00-10:50	M		612 W. Grand
541-2						
1	1		3:00-4:50	W		612 W. Grand
543-4						
1			3:00-4:50	W	F	612 W. Grand
551-4						
1			5:45-9:15 pm	Th		612 W. Grand
556-4						
1			2:00-3:50	W	F	612 W. Grand
558-4						
1			1:00-2:50	W	F	612 W. Grand
561-2						
1			9:00-10:50	M		612 W. Grand
563-4						
1			7:35-9:15 pm	Tu	Th	612 W. Grand
564-4						
1			7:35-9:15 pm	Tu	Th	612 W. Grand
567-4						
1			7:35-9:15 pm	M	W	612 W. Grand
571-1 to 4						
1	1	1	To be arranged			Consent of department
						Renzaglia
						Bozarth
574-2						
1	1	1	To be arranged			Consent of instructor
576-2						
1	1	1	10:00-11:50	M		Sulzer
578-2						
1	1	1	To be arranged			Consent of instructor
						Twomey
580-1 to 6						
1	1	1	To be arranged			Consent of department

Course No.	Hours			Descriptive Title	Days	Place	Prerequisite Instructor
	Fall	Winter	Spring				
583-1 to 16				Practicum in Behavior Modification			Consent of instructor
1	1	1		To be arranged			
585-1 to 16				Practicum in Rehabilitation Counseling			551
1	1	1		To be arranged			
589-0 to 12				Internship in Rehabilitation			Consent of department
1	1	1		To be arranged			
590-1 to 16				Independent Projects			Consent of department
1	1	1		To be arranged			
591-1 to 16				Research in Rehabilitation			Consent of instructor
1	1	1		To be arranged			
599-1 to 9				Thesis			Consent of instructor
1	1	1		To be arranged			

## RELIGION (REL)

207-3	Bible, Life and Teachings of Christ						
1			11:00-11:50	M W F	R1		Smith
208-3	Bible, Life and Writings of Paul						
1			11:00-11:50	M W F	R1		Smith
210-3	Survey of Roman Catholic Faith						
1	1	1	9:00-9:50	M W F	Newman Center		Hsu
211-3	Divine Claims of Christianity						
1	1	1	11:00-11:50	MTu Th	Newman Center		Orford
212-2	Analysis of Divine Belief						
1	1	1	7:35-9:15 pm	M	Newman Center		Hentschel
T240a-3	History of the Judeo-Christian Religion, Beginnings of Israel to 12th Century						
1			8:00-8:50	M W F	R1		Smith
T240b-3	History of the Judeo-Christian Religion, Later Middle Ages to Present in Europe						
1			8:00-8:50	M W F	R1		Smith
T240c-3	History of the Judeo-Christian Religion, Story of Religion in America						
1			8:00-8:50	M W F	R1		Smith
243-3	History of Christian Workshop						
1		1	10:00-10:50		Th		Hillestad
			11:00-11:50	M	Th		Hillestad
305-3	Bible, Introduction to Old Testament						
1			9:00-9:50	M W F	R1		Smith
307-3	Bible, The Poetical Books						
1			9:00-9:50	M W F	R1		Smith
308-3	Bible, The Prophets						
1			9:00-9:50	M W F	R1		Smith
315-2	Theology of Sacraments						
1	1	1	7:35-9:15 pm		Th	Newman Center	Pasion
337-3	Bible, The Emerging Church						
1			11:00-11:50	M W F	R1		Smith

## SECONDARY EDUCATION (SED)

310-4	History and Principles of Secondary Education						Guid 305
1	1	1	9:00-9:50	MTuWTh	Wham 326		
2	2	2	10:00-10:50	MTuW F	Wham 326		
3	3	3	11:00-11:50	MTuW F	Wham 326		
4	4	4	12:00-12:50	M WThF	Wham 326		
5	5	5	1:00-1:50	MTuWTh	Wham 326		
6	6	6	2:00-2:50	TuWThF	Wham 326		
7	7	7	3:00-3:50	MTuWTh	Wham 326		
8	8	8	5:45-7:25 pm	M W	Wham 326		
315-3	High School Methods						Guid 305
1	1	1	8:00-8:50	M W F	Wham 326	Stephens	
2	2	2	12:00-12:50	MTu Th	Wham 319	Stephens	
352-4 to 16	Secondary Student Teaching						
1	1	1	To be arranged				
375-2 or 3	Readings in Secondary Education						310
1	1	1	To be arranged				Samford
407-4	The Junior High School						
1			9:00-9:50	MTuWTh	Ag 218		
		1	2:00-2:50	MTuWTh	Comm 122	Edwards	
440-4	Teaching Reading in High School						Methods
1	1	1	9:00-9:50	MTu ThF	Wham 319	Fishco	
488-3	Teaching Social Studies in Secondary Schools						
1	1		11:00-11:50	M W F	Wham 319	Benson	

Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				
505-4	Reading in the Secondary School	Student teaching				
1	1	6:30-9:00 pm	M		Wham 144	Fisheo
507-2 to 4	Readings in Reading	To be arranged				
508-4	Seminar: Trend in Selected Areas of Secondary Education					
1	6:30-9:00 pm	Tu		Wham 326	Dykhouse	
509-4 to 8	Practicum in Reading	To be arranged				
514-4	Organization and Administration of Reading Programs	To be arranged				
550-4	Core Curriculum in the Secondary School					
1	6:30-9:00 pm	Th		Wham 326		
562-4	High School Curriculum					
1	6:30-9:00 pm	Th		Wham 326		
564-4	High School Principalship					
1	6:30-9:00 pm	M		Wham 208		
575a-2	Individual Research (Curriculum)	To be arranged				
1	1	1				
575b-2 to 4	Individual Research (Supervision)	To be arranged				
1	1	1				
575c-2 to 4	Individual Research (Language Arts)	To be arranged				
1	1	1				
575d-2 to 4	Individual Research (Science)	To be arranged				
1	1	1				
575e-2 to 4	Individual Research (Readings)	To be arranged				
1	1	1				
575f-2 to 4	Individual Research (Social Studies)	To be arranged				
1	1	1				
575g-2 to 4	Individual Research (Secondary Education)	To be arranged				
1	1	1				
575k-2 to 4	Individual Research (Junior High School Methodology)	To be arranged				
1	1	1				
596-5 to 9	Independent Investigation	To be arranged				
1	1	1				
597-1 to 3	Thesis	To be arranged				
1	1	1				
598-1 to 3	Thesis	To be arranged				
1	1	1				
599-1 to 3	Thesis	To be arranged				
1	1	1				
600-1 to 16	Dissertation	To be arranged				
1	1	1				

## SECRETARIAL AND BUSINESS EDUCATION (SEC)

201a-3	Typewriting					
1	1	1	8:00-8:50	MTuWTh	Cl 13	Kracht
201b-3	Typewriting	201a or equivalent				
1	1	1	9:00-9:50	MTuWTh	Cl 13	Burger
201c-3	Typewriting	201b or equivalent				
1	1	1	9:00-9:50	MTuWTh	Cl 21	Burger
221a-4	Shorthand and Transcription					
1	1	1	10:00-10:50	MTuWThF	Cl 21	
221b-4	Shorthand and Transcription	221a or equivalent				
1	1	1	2:00-2:50	MTuWThF	Cl 21	Burger
221c-4	Shorthand and Transcription	221b or equivalent				
1	1	1	2:00-2:50	MTuWThF	Cl 17	
241-1	Duplicating	201a				
1	1	1	9:00-10:50	M	Cl 24	Kracht
2	2	2	3:00-4:50		F Cl 24	Kracht
242-1	Calculating Machines for Accountants					
1	1	1	10:00-11:50	M	Cl 17	Bauernfeind
304-3	Advanced Typewriting	201c or equivalent				
1	1	1	1:00-1:50	TuWThF	Cl 21	
324a-4	Advanced Shorthand and Transcription	221c or equivalent				
1	1	1	12:00-12:50	MTuWThF	Cl 13	Rahe
324b-4	Advanced Shorthand and Transcription	324a or equivalent				
1	1	1	12:00-12:50	MTuWThF	Cl 21	Burger
326-4	Executive Secretarial Procedures	201b or equivalent				
1	1	1	8:00-8:50	MTuWThF	Cl 21	Bauernfeind
341-4	Office Calculating Machines					
1	1	1	1:00-1:50	MTuWThF	Cl 17	Bauernfeind
403-3	Teaching Typewriting	201c or equivalent				
1	1	1	6:00-7:25 pm	Tu Th	Cl 13	Rahe
404-3	Teaching Shorthand and Transcription	324a or equivalent				
1	1	1	6:00-7:25 pm	M W	Cl 13	Rahe



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite
Fall	Winter	Spring	Time				Instructor
405-3	Teaching General Business Subjects						
1			6:00-7:25 pm	Tu	Th	Cl 21	Slaten
406-4	Teaching Office Practice and Office Machines						241, 341
1			5:45-7:25 pm	M	W	Cl 17	Bauernfeind
407-4	Office Management						
1			7:35-9:15 pm	M	W	Cl 21	
408-3	Teaching Bookkeeping and Accounting						Acct 251a
1			6:00-7:25 pm	M	W	Cl 21	Bauernfeind
427-4	Records Administration						326
1			5:45-7:25 pm	Tu	Th	Cl 21	Bauernfeind
500-2 to 5	Readings in Business Education						
1	1	1	To be arranged			Cl 21	Slaten
501-2 to 5	Individual Research in Business Education						
1	1	1	To be arranged			Cl 17	Slaten
502-4	Research in Business Education						
1	1	1	To be arranged			Cl 13	
503-4	Tests and Measurements in Business Education						
1			9:00-11:30			S Cl 13	
506-4	Principles and Problems of Business Education						
1			9:00-11:30			S Cl 17	
509-4	Improvement of Instruction in General Business Subjects						
1			9:00-11:30			S Cl 21	Slaten
510-4	Improvement of Instruction in Secretarial Subjects						
1			9:00-11:30			S Cl 21	Rahe
599-1 to 9	Thesis						
1	1	1	To be arranged			Cl 13	

## SOCIOLOGY (SOC)

301-4	Principles of Sociology						Junior standing
1			3:00-3:50	MTu	ThF	Wham 112	Rossel
		1	12:00-12:50	MTuWTh		Wham 112	Rossel
r2			9:00-9:50	MTuWTh		To be arranged	Larson
		2	11:00-11:50	MTuWTh		Wham 112	Larson
302-4	Contemporary Social Problems						301
1			9:00-9:50	MTuWTh		HEc 118	Gold
		1	9:00-9:50	TuWThF		Wham 112	Gold
308-3	Statistics for Social Science						Junior standing or consent of instructor
1			11:00-11:50	M	W	F	HEc 118
312-4	Elements of Sociological Research						308 or Math 220 or GSD 108c
1			8:00-9:50	Tu	Th	Wham 212	Brooks
	1		10:00-10:50	M	W	HEc 106	Blair
			10:00-10:50	Tu	Th	HEc 201	
		1	10:00-11:50	W	S	HEc 118	Brooks
GSB 321-3	Socialization of the Individual						(See General Studies, Area B)
GSB 325-3	Race and Minority Relations						(See General Studies, Area B)
332-4	Social Organization						301
1			7:35-9:00 pm	Tu	Th	Bailey 130	Nall
		1	10:00-10:50	MTu	ThF	HEc 118	Nall
335-4	Urban Sociology						GSB 201b or 301
1			11:00-11:50	MTuWTh		Wham 112	Gold
		1	11:00-11:50	MTu	ThF	Wham 112	Gold
		r1	1:00-1:50	MTu	ThF	Wham 212	
338-4	Industrial Sociology						GSB 201b
1			12:00-12:50	MTuWTh		Wham 112	Rossel
340-4	The Family						GSB 201b or 301
1			10:00-10:50	MTuW	F	L 101	Snyder
351-4	Sociology of Religion						GSB 201b
r1			1:00-1:50	MTu	ThF	HEc 118	
GSB 341-3	Marriage						(See General Studies, Area B)
371-4	Population and Migration						GSB 201b or equivalent in Econ, Govt, or Geography
1			8:00-8:50	MTuWTh		HEc 118	Blair
372-4	Criminology						GSB 201b
1		1	8:00-8:50	TuWThF		Wham 112	McMillin
		r1	2:00-2:50	MTuWTh		HEc 118	
373-4	Juvenile Delinquency						GSB 201b
1			8:00-8:50	MTuWTh		Wham 112	McMillin
r1			2:00-2:50	TuWThF		Wham 112	
374-4	Sociology of Education						GSB 201b
r1			1:00-1:50	MTu	Th	HEc 118	
375-4	Social Welfare as a Social Institution						GSB 201b or 301
1			8:00-8:50	MTu	ThF	HEc 118	Eades
r2			5:45-7:25 pm	Tu	Th	HEc 118	Eades

Course	No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				
	1	1	9:00–9:50	MTu ThF	HEc 118	Eades
	t2		11:00–11:50	MTu ThF	HEc 118	Eades
383-4	Introduction to Interviewing					GSB 201b or c
	1		12:00–12:50	TuWThF	Wham 112	
	t2		1:00–1:50	MTu ThF	HEc 118	
		t1	5:45–7:25 pm	Tu Th	HEc 118	
406-4	Social Change					8 hrs of Soc
	t1		11:00–11:50	MTuWTh	HEc 118	
412-4	Sociological Research					Graduate status or consent of instructor
	1		8:00–9:50	M W	Wham 212	Brooks
		1	8:00–9:50	Tu Th	Wham 212	Brooks
426-4	Social Factors in Behavior and Personality					GSB 321 or Psyc 305 or consent of instructor
	1		12:00–1:50	W	HEc 118	Rossel
			9:00–10:50	F	HEc 118	
		t1	11:00–12:50	Tu Th	Wham 212	Snyder
435-4	Social Stratification					GSB 201b or 301
	1		7:00–9:30 pm	Tu	HEc 118	Nall
438-4	Sociology of Occupations and Professions					GSB 201b or 301
	1		7:00–9:30 pm	W	Wham 212	Gold
471-4	Principles of Demography					371, 412
	1		10:00–10:50	MTuWTh	Wham 212	Blair
472-4	The American Correctional System					372 or consent of instructor
	1		To be arranged			E. Johnson
481-4	Processes in Social Work					380 or consent of instructor
	1		4:00–4:50	MTuWTh	Wham 112	Stephan
		1	12:00–12:50	MTuWTh	HEc 118	
		t2	10:00–11:50	FS	HEc 118	
		t1	3:00–4:50	M W	Wham 112	Stephan
482-3	Social Work in Selected Agencies					481
		t1	11:00–11:50	MTu Th	Wham 212	Eades
		1	8:00–8:50	Tu Th S	HEc 118	
483-4	Current Problems in Corrections					472 or consent of instructor
	1		To be arranged			E. Johnson
486-1 to 5	Independent Study in Community Development					Consent of Community Development
	1	1	To be arranged			
487a-4	Community Development					8 hrs of Soc or equivalent
	1		To be arranged			Thomas
		1	To be arranged			Hawley
487b-3	Community Development					8 hrs of Soc or equivalent
	1		To be arranged			Thomas
						Hawley
489b-4	Probation, Classification and Parole					481 or consent of instructor
	1		3:00–4:50	M W	Wham 212	Stephan
501-4	Survey of Sociological Theory					451 or consent of instructor
	1		10:00–12:50	M	Wham 212	Munch
502-4	Seminar in European Sociological Theory: 1800–1910					15 hrs or consent of instructor
	t1		10:00–12:50	Tu	Wham 212	Munch
503-4	Seminar in European Sociological Theory: 1910 to the present					15 hrs of Soc or consent of instructor
	t1		10:00–12:50	W	Wham 212	Munch
504-4	Seminar in American Sociology					501 or consent of instructor
	1		9:00–11:30	W	Wham 212	Duncan
506-4	Seminar in Contemporary Sociological Theory					15 hrs or consent of instructor
	1		7:00–9:30 pm	Th	Cl 326	Nall
513-2	Supervised Research					412 and 526
	1		1:00–2:50	M	Wham 212	Brooks
521-4	Seminar in Social Psychology					426
	1		2:00–4:50	Th	Wham 212	Duncan
526-4	Quantitative Methods in Sociology I					College algebra
	1		10:00–11:50	ThF	Wham 212	Larson
527-4	Quantitative Methods in Sociology II					526 or consent of instructor
	1		7:00–9:30 pm	M	Wham 212	Larson
528-4	Quantitative Methods in Sociology III					527 or equivalent
	1		2:00–3:50	Tu Th	Wham 212	Larson

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time		Instructor
529-4		Sociological Measurement		College algebra or consent of instructor	
	1	1:00-2:50	Tu Th	Wham 212	
530-4		Research Design		527 or equivalent	
	1	3:00-4:50	Tu Th	Wham 212	Brooks
533-4		Ecology of Human Communities		15 hrs of soc or consent of instructor	
	1	2:00-4:30	Tu	HEc 118	Wakeley
538-4		Seminar in Industrial Sociology		15 hrs of soc and consent of instructor	
	1	2:00-4:30	M	HEc 118	Rossel
539-4		Sociology of Bureaucracy		15 hrs of soc and consent of instructor	
	1	7:00-9:30 pm	Th	HEc 118	Nall
542-4		Seminar on the Family		15 hrs of soc including 340 or consent of instructor	
	1	9:00-11:50	F	Wham 212	Lantz
545-4		The Family and Social Change		15 hrs of soc including 340 or consent of instructor	
	1	6:30-9:00 pm	M	Wham 212	Snyder
561-4		Alcohol and Society		Consent of instructor	
	1	7:00-9:30 pm	Tu	Wham 212	Snyder
562-4		Deviance and Disorganization		Consent of instructor	
	1	7:00-9:30 pm	Tu	Cl 326	Snyder
563-4		Research Problems in Deviance and Disorganization		Consent of instructor	
	1	7:00-9:30 pm	Tu	Cl 326	Snyder
564-4		Social Factors in Mental Disorders		Consent of instructor	
	1	2:00-4:50	Tu	Wham 212	Lantz
566-4		Community Organization and Disorganization		Consent of instructor	
	1	2:00-4:30	M	Wham 212	Lantz
572-4		Seminar in Criminology		Consent of instructor	
	1	To be arranged			E. Johnson
586-3		The Change Agent in Planned Change		Consent of instructor	
	1	1	1	To be arranged	Thomas
587-2 to 8		Individual Research in Community Development		Major in community development	
	1	1	1	To be arranged	Thomas
591-2 to 6		Individual Research		Consent of instructor and chairman of department	
	1	1	1	To be arranged	
596-2 to 12		Readings in Sociology		Consent of instructor and chairman of department	
	1	1	1	To be arranged	
599-2 to 9		Thesis		Consent of chairman	
	1	1	1	To be arranged	
600-1 to 48		Dissertation		Consent of chairman	
	1	1	1	To be arranged	

## SPECIAL EDUCATION (SPE)

200-2		Orientation to the Education of Exceptional Children			
	1	1	10:00-10:50	Tu Th	Wham 302 Gross
		1	2:00-2:50	M W	Wham 302 Gross
406-4		Techniques and Interpretation of Hearing Tests			
	1	9:00-9:50	MTu ThF	Comm 111	Copeland
410a-4		Problems and Characteristics of the Emotionally Disturbed			
				Psyc 301 or 303 or consent of instructor	
	1	1	4:00-4:50	MTuWTh	Wham 206 Shea
		1	3:00-3:50	MTuWTh	HEc 118 Shea
410b-4		Problems and Characteristics of the Mentally Retarded			
				Psyc 301 or 303 or consent of instructor	
	1		3:00-3:50	MTuWTh	M 210
		1	3:00-3:50	MTuWTh	Comm 111
		1	9:00-9:50	MTuWTh	HEc 303
410c-4		Problems and Characteristics of the Gifted Child			
				Psyc 301 or 303 or consent of instructor	
	1	1	6:30-9:00 pm	Tu	Wham 326 McKay
		1	10:00-10:50	MTuWTh	HEc 303 McKay
410d-4		Problems and Characteristics of the Acoustically Handicapped			
				Psyc 301 or 303 or consent of instructor	
	1		2:00-2:50	MTuWTh	Wham 329 Stull
411-4		Assessment and Remediation of Learning Disabilities			
				414 and consent of instructor	
	1		6:30-9:00 pm	M	Wham 206 Shea
		1	8:00-8:50	MTuWTh	Wham 301a



Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor			
		1	1:00–1:50	MTuWTh	Wham 301a			
413a–4	Directed Observation of Emotionally Disturbed Children				Consent of instructor			
		1	1	1	To be arranged	Gross		
413b–4	Directed Observation of Mentally Retarded Children				Consent of instructor			
		1	1	1	10:00–12:50	M	Wham 301a	Rainey
413d–4	Directed Observation and Practice with Hard-of-Hearing Children					Consent of instructor		
		1	2:00–2:50	MTuWTh	Wham 137	Stull		
414–4	The Exceptional Child				Psyc 301 or 303 or consent of instructor			
		1	1		1:00–1:50	MTuWTh	Wham 302	McKay
			1		6:30–9:00 pm	Th	Wham 302	McKay
415–4	Education of Acoustically Handicapped Children					Consent of instructor		
		1			2:00–2:50	MTuWTh	Wham 301a	Stull
								Crittenden
416–4	Introduction to Audiology				See Speech Pathology and Audiology for time and place			
419–4	Communication Problems of the Deaf and Hard-of-Hearing				Consent of instructor			
					See Speech Pathology and Audiology for time and place			
420a–4	Methods and Materials for Teaching Emotionally Disturbed 410a, and consent of instructor							
		1			4:00–4:50	MTuWTh	Wham 328	Shea
			1		3:00–3:50	MTuWTh	Wham 203	Shea
420b–4	Methods and Materials for Teaching Mentally Retarded 410b, and consent of instructor							
		1	1	1	To be arranged			Rainey
420d–4	Methods and Materials for Teaching Acoustically Handicapped Children				410d, and consent of instructor			
		1			3:00–3:50	MTuWTh	Wham 206	Crittenden
421–4	Speech for Acoustically Handicapped Children				Sp Pa Aud 200			
		1			9:00–9:50	MTuWTh	M 210	Crittenden
428–4	Speech Correction for the Classroom Teacher				See Speech Pathology and Audiology for time and place			
496–2 to 8	Readings and Independent Study in Special Education				414 and consent of instructor			
		1	1	1	To be arranged			
501–4	Special Research Problem				Consent of staff			
		1	1	1	To be arranged			
513–4	Organization, Administration and Supervision of Special Classes 414							
		1			6:30–9:00 pm	Th	Wham 208	Crittenden
515–4	Itinerant Teaching of Exceptional Children				104a,b, or d			
		1			6:30–9:00 pm	W	Wham 201	
517–4	The Atypical Child and Social Agencies				Sp E 414, or consent of instructor			
		1			6:30–9:00 pm	W	Wham 208	Crowner
577–4 to 12	Practicum				Consent of instructor & Sp E 410a,b, or d			
		1	1	1	To be arranged			
580a–4	Seminar: Education of Maladjusted Children				Sp E 414 and consent of instructor			
		1			9:00–9:50	MTuWTh	Comm 214	Crowner
580b–4	Seminar: Education of Mentally Retarded Children				414 and consent of instructor			
		1			6:30–9:00 pm	Tu	Wham 301a	
580d–4	Seminar: Education of Acoustically Handicapped Children				414 and consent of instructor			
		1			6:30–9:00 pm	M	Wham 301b	Crittenden
590–4	Seminar: Education of Children with Mental Deviations				Consent of instructor			
		1			11:00–11:50	MTuWTh	Comm 214	
591–4	Seminar: Education of Physically Handicapped Children				Consent of instructor			
		1			11:00–11:50	MTuWTh	Comm 214	Crittenden
592–4	Seminar: Education of Children with Learning and Behavioral Disorders				Consent of instructor			
		1			11:00–11:50	MTuWTh	Comm 214	Crowner
596–4 to 8	Independent Investigation							
		1	1	1	To be arranged			

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		

599-2 to 9	Thesis				
1	1	1	To be arranged		
600	Dissertation				
1	1	1	To be arranged		

## S P E E C H (SPCH)

102-4	Public Speaking				GSD 103
1	1	1	2:00-2:50	MTuWTh	Comm 116 Hibbs
2	2		3:00-3:50	MTuWTh	Comm 116
104-4 <sup>1</sup>	Training Speaking Voice				
1	1	1	4:00-4:50	MTu ThF	Comm 214
200-4	Phonetics				
1			8:00-8:50	MTuWTh	Comm 116 Garbutt
201-2	Parliamentary Law				
1			11:00-11:50	M F	Comm 116 Breniman
202-3	Principles of Discussion				GSD 103
1			11:00-11:50	MTu Th	Comm 116 Potter
	1		3:00-3:50	MTu Th	Comm 118 Potter
		1	2:00-2:50	M W F	Comm 118 Potter
205-3	Principles of Argumentation				GSD 103
1			8:00-8:50	MTu Th	Comm 116
					Mr. Kleinau
		1	10:00-10:50	TuWTh	Comm 116
					Mr. Kleinau
209-1	Forensic Activities				
1	1	1	To be arranged		Mr. Kleinau
301-4	Persuasion				
1			2:00-2:50	MTuWTh	Comm 118 Smith
303-4	Business and Professional Speaking				
1			1:00-1:50	MTuWTh	Comm 116 Smith
304-3	Great Speeches				
1			1:00-1:50	M W F	Comm 118 Smith
309-1	Forensic Activities				
1	1	1	To be arranged		Kleinau
313-4	Speech Composition				102
1			1:00-1:50	TuWThF	Comm 116
323-4	Oral Interpretation II				
1			11:00-11:50	MTuWThF	Comm 118
					Mrs. Kleinau
		1	3:00-3:50	MTuWThF	Comm 116
					Mrs. Kleinau
401-4	Creative Dramatics				
1	1	1	9:00-9:50	MTuWTh	Comm 116 Flagg
406-4	Teaching Speech in Secondary School				
1		1	8:00-9:50	M W	Wham 301a Higginbotham
407a-4	American Public Address				
1			8:00-9:50	Tu Th	HEc 120 Bradley
407b-4	American Public Address				
1			8:00-9:50	Tu	Comm 120 Bradley
			8:00-9:50	Th	Comm 114
408-4	Psychology of Speech				
1			3:00-3:50	M WThF	Comm 118 Breniman
417-4	Contemporary Public Address				
1			10:00-11:50	M F	Comm 116 Potter
418-4	British Public Address				
1			1:00-2:50	Tu Th	Comm 118 Micken
422-4	Oral Interpretation of Prose				
1			11:00-11:50	MTuWTh	Comm 118
					Mrs. Kleinau
423-4	Oral Interpretation of Poetry				
1			11:00-12:50	Tu Th	Comm 116
					Mrs. Kleinau
424-4	Oral Interpretation of Dramatic Literature				
1			12:00-12:50	MTuWTh	Comm 214 Harrison
425-3	Techniques of Discussion Leadership				
1			10:00-10:50	MTu Th	Comm 116 Potter
427-4	The Secondary School Forensics Program				
1			10:00-10:50	M WThF	Comm 118 Breniman
429-4	Experimental Studies in Oral Communication				
	1		12:00-12:50	M W	Comm 116
			12:00-1:50	F	Comm 116
434-4	Lecture and Lecture Recital				
1			2:00-4:50	W	Comm 114
					Mrs. Kleinau

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time		Instructor
441-4	1	Teaching Speech in Elementary School	9:00-9:50	MTuWTh	Comm 118
					Higginbotham
449-4	1	General Semantics	9:00-9:50	MTuWTh	Comm 118
					Pace
450a-4	1	Laboratory in Interpersonal Communication	2:00-3:50	Tu Th	HEc 206
					Pace
450b-4	1	Laboratory in Interpersonal Communication	2:00-3:50	Tu Th	Comm 214
					Pace
450c-4	1	Laboratory in Interpersonal Communication	2:00-3:50	Tu Th	Comm 214
					Pace
500-4	1	Survey of Class Rhetoric	10:00-11:50	Tu Th	Comm 114
					Micken
504-4	1	Medieval Rhetoric Theory	10:00-11:50	Tu Th	Comm 148
					Bradley
505-4	1	Modern Rhetoric Theory	10:00-11:50	Tu Th	Comm 114
					Baird
507a-3	1	Studies in Public Address	10:00-11:50	M	M 202
				F	Wham 203
507b-3	1	Studies in Public Address	10:00-11:50	M	HEc 202
				F	Wham 301b
508-4	1	Seminar: Studies in Discussion	10:00-10:50	MTu ThF	Comm 116
					Potter
510-4	1	Seminar: Persuasion and Social Contact	8:00-9:50	M	Wham 212
				W	Wham 312
					Micken
511a-2	1	Teaching the College Speech Course	1:00-1:50	M W	Wham 301a
					Smith
511b-2	1	Teaching the College Speech Course	1:00-1:50	M W	Comm 148
					Smith
520-3	1	Philosophy Foundations of Speech	6:00-9:00 pm	Tu	Comm 214
					Baird
523-3	1	Seminar: Problems in Interpretation	1:00-3:50	W	Comm 114
					Mrs. Kleinau
524a-3	1	Seminar: Rhetoric and Public Address	8:00-9:50	Tu Th	Comm 214
					Bradley
525-4	1	Seminar Speech Education	10:00-11:50	M W	Comm 114
					Higginbotham
530-1 to 4	1	Research Problems	To be arranged		
532a-2	1	Areas and Techniques of Speech	1:00-1:50	Tu Th	Wham 301a
					Bradley
532b-2	1	Areas and Techniques of Speech	1:00-1:50	Tu Th	Comm 148
					Bradley
599-1 to 9	1	Thesis	To be arranged		
600-1 to 12	1	Dissertation	To be arranged		

<sup>1</sup> Cross-listed with Speech Pathology and Audiology.

## SPEECH PATHOLOGY AND AUDIOLOGY (SP PATH & AUD)

100-0 to 2	1	Speech Clinic	To be arranged		Comm 105
104-4 <sup>1</sup>	1	Training the Speaking Voice	8:00-8:50	MTu ThF	Comm 111
200-4	1	Phonetics	2:00-2:50	MTuWTh	Comm 111
					Garbutt
203-4	1	Introduction to Speech Science	11:00-11:50	MTu ThF	Comm 111
					Hoshiko
212-4	1	Articulation Problems and Delayed Speech	11:00-11:50	MTu ThF	Comm 111
					200, may be taken concurrently
318-4	1	Voice and Cleft Palate	8:00-8:50	MTu ThF	Comm 113
					Brackett
319-4	1	Stuttering	1:00-1:50	MTu ThF	Comm 111
					200, 212, 318
400-1 to 4	1	Independent Study in Pathology and Audiology	To be arranged		Comm 105
					212, 318 or consent of instructor
405a-2 to 4	1	Practicum in Speech and Hearing Therapy	3:00-3:50	Tu Th	Comm 117
					B- average in Speech Pathology 200, 212, 318 or consent of instructor
					Pace



Course No.—Hours		Descriptive Title		Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
405b-2 to 4			Practicum in Speech and Hearing Therapy			B- average in Speech Pathology 200, 212, 318 or consent of instructor	
1			11:00-11:50	M	Th	Comm 117	Pace
405c-2 to 4			Practicum in Speech and Hearing Therapy			B- average in Speech Pathology 200, 212, 318 or consent of instructor	
1			3:00-3:50	M	Th	Comm 117	Pace
406-4 <sup>3</sup>			Techniques and Interpretation of Hearing Tests			416	
1			9:00-9:50	MTu	ThF	Comm 111	Copeland
409-4			Research Techniques in Speech Science			Senior standing	
1			1:00-1:50	MTu	ThF	Comm 111	Brutten
412-4			Cerebral Palsy			414 or taken concurrently	
1			1:00-1:50	MTu	ThF	Comm 111	Pace
414-4			Anatomy and Physiology of Speech and Hearing Mechanism			Junior standing	
1			10:00-11:50		F	LS 118	
			10:00-10:50	MTu	Th	LS 113	Kaplan
415-4			Aphasia			414	
1			2:00-2:50	MTu	ThF	Comm 113	Pace
416-4 <sup>3</sup>			Introduction to Audiology			Junior standing	
1			9:00-9:50	MTu	ThF	Comm 111	Copeland
419-4 <sup>3</sup>			Communications Problems of Deaf and Hard of Hearing			416, 406, may be taken concurrently	
1			2:00-2:50	MTu	ThF	Comm 111	Crittenden
420-4			Advanced Clinical Audiometry			416, 406	
1			9:00-9:50	MTu	ThF	Comm 111	Copeland
T421-3 <sup>3</sup>			Speech for Acoustically Handicapped			Junior standing	
1			9:00-9:50	MTuWTh	M	210	Crittenden
428-4 <sup>3</sup>			Speech Correction for the Classroom Teacher			Junior standing	
1			3:00-3:50	MTu	ThF	Comm 111	Brackett
	1		10:00-10:50	MTu	ThF	Comm 111	
		1	6:30-9:30 pm	M		Comm 111	
515-1 to 4			Readings in Speech Pathology and Audiology			Graduate	
1	1	1	To be arranged			Comm 105	
516-1 to 4			Seminar in Psychoacoustics			416, 406, 520 or consent of instructor	
1			2:00-3:50	Tu	F	Comm 117	Copeland
520-4			Seminar in Physio-Acoustics			416, 406, 420 or consent of instructor	
1			10:00-11:50	Tu	Th	Comm 117	Copeland
521-1 to 4			Seminar in Articulation and Delayed Speech			200, 212, 412, 415, consent of instructor	
1			2:00-3:50	M	Th	Comm 117	Brackett
522a-1 to 4			Seminar in Organic Speech Problems: Developmental Anatomy and Physiology			Graduate	
1			4:00-5:50	M	Th	Comm 113	Koepp-Baker
522b-1 to 4			Seminar in Organic Speech Problems: Teratology, Surgery, Dentistry			522a	
1			4:00-5:50	M	Th	Comm 113	Koepp-Baker
522c-1 to 4			Seminar in Organic Speech Problems: Neuro-Pathology Basis			522b	
1			4:00-5:50	M	Th	Comm 113	Koepp-Baker
528-4			Seminar in Experimental Audiology			516, 520	
1			10:00-11:50	Tu	F	Comm 117	Copeland
529a-1 to 4			Seminar in Stuttering Behavior			Graduate	
1			4:00-5:50	Tu	F	Comm 111	Brutten
529b-1 to 4			Seminar in Stuttering Behavior			529a	
1			4:00-5:50	Tu	F	Comm 111	Brutten
529c-1 to 4			Seminar in Stuttering Behavior			529b	
1			4:00-5:50	Tu	F	Comm 111	Brutten
530-1 to 4			Research Problems in Speech Pathology and Audiology			Graduate	
1	1	1	To be arranged			Comm 105	
531-1 to 4			Seminar in Experimental Phonetics			409	
1			10:00-11:50	M	Th	Comm 117	Hansen
533-1 to 4			Seminar in Speech Science			409	
1			10:00-11:50	Tu	F	Comm 117	Hoshiko
534-1 to 4			Seminar in Instrumentation			Graduate	
1			10:00-11:50	M	F	Comm 117	Hoshiko
536-1 to 4			Seminar in Administration of Speech and Hearing Programs			Graduate	
	1		3:00-4:50		W	Comm 117	Brackett
599-2 to 9			Thesis			Graduate	
1	1	1	To be arranged			Comm 105	

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring			Instructor

**600-4 to 12 Dissertation ..... Graduate**

1 1 1 To be arranged Comm 105

<sup>1</sup> Cross-listed with Speech.

<sup>2</sup> Cross-listed with Physiology.

<sup>3</sup> Cross-listed with Special Education.

**TECHNOLOGY (TECH)****100-2 Orientation**

1 1 9:00-9:50 Tu Th Tech A111  
10:00-10:50 Tu Th Tech A111

**101a-3 Graphics**

1 1 8:00-9:50 M W F Tech A209  
2 2 10:00-11:50 M W F Tech A209  
3 3 1:00-2:50 M W F Tech A209  
4 4 3:00-4:50 M W F Tech A209  
5 5 6:00-8:50 pm M W Tech A209  
6 6 10:00-11:50 Tu Th S Tech A209  
7 8:00-9:50 M W F Tech A219  
8 10:00-11:50 M W F Tech A219  
9 1:00-2:50 M W F Tech A219  
10 3:00-4:50 M W F Tech A219  
11 6:00-8:50 pm M W Tech A219  
12 8:00-9:50 Tu Th S Tech A219

**101b-3 Graphics**

1 1 8:00-9:50 M W F Tech A219  
2 2 10:00-11:50 M W F Tech A219  
3 3 1:00-2:50 M W F Tech A219  
T4 3:00-4:50 M W F Tech A219

101a

**101c-3 Graphics**

1 1 8:00-9:50 M W F Tech A207  
2 2 10:00-11:50 M W F Tech A207  
3 3 1:00-2:50 M W F Tech A207  
4 4 3:00-4:50 M W F Tech A207  
5 5 6:00-8:50 pm M W Tech A207  
T6 8:00-9:50 Tu Th S Tech A207

101a

**300c-3 Applications of Fundamental Physical Principles ..... Math 111a, GSA 101a,b**

1 1 1 2:00-2:50 M W F Tech A319

**319-3 Industrial Internship ..... Consent of coordinator**

1 1 1 To be arranged

**GSA 358a Analysis of Physical Systems (See General Studies A for schedule) .....****TECHNICAL AND INDUSTRIAL EDUCATION (T&IED)****302-4 Construction Methods for Primary Teachers**

1 1 1 8:00-9:50 MTuWTh To be arranged  
2 2 2 1:00-2:50 MTuWTh To be arranged  
3 3 3 3:00-4:50 MTuWTh To be arranged

**303-4 Diversified Crafts for Teachers and Recreation Leaders**

1 1 1 10:00-11:50 MTuWTh To be arranged  
2 2 2 1:00-2:50 MTuWTh PullII 14

**319-3 Industrial Internship ..... Consent of coordinator**

1 1 1 To be arranged

**380-3 Special Skills in Teaching Technological Subjects (Wood) ..... 12 hrs of T and IEd**

1 8:00-9:50 Tu Th To be arranged

**380-3 Special Skills in Teaching Technological Subjects (Metal) ..... 12 quarter hrs of T and IEd**

1 10:00-11:50 Tu Th To be arranged

**380-3 Special Skills in Teaching Technological Subjects (Drafting) ..... 12 hrs of T and IEd**

1 1:00-2:50 Tu Th Tech A209

**408-3 Teaching Aids in Technological Education**

1 1 6:00-8:30 pm W Tech A208

**419-8 to 16 Advanced Student Teaching in Technical Programs ..... Graduate standing**

1 1 1 To be arranged

**425-2 to 8 Practicum in Technology ..... Consent of coordinator**

1 1 1 To be arranged

**430-2 to 8 Special Problems in Industry and Technology ..... Consent of coordinator**

1 1 1 To be arranged

**435-6 to 12 Manual Arts Internship ..... Consent of coordinator**

1 1 1 To be arranged

Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				
465a-4 <sup>1</sup>						
1			11:00-11:50	MTu ThF	Tech A208	
465b-4 <sup>1</sup>						
1			11:00-11:50	MTu ThF	Tech A208	
480-3						12 hrs of T & IED
			1 6:00-8:30 pm	Tu	Tech A208	
485-3						
1			9:00-11:30		S Tech A208	
487-3						12 hrs of T and IED
1			6:00-8:30 pm	Th	Tech A208	
491a-3						50 percent of major completed
1			6:00-8:30 pm	Tu	Tech A208	
			1 6:00-8:30 pm	Th	Tech A208	
491b-3						
1			6:00-8:30 pm	Tu	Tech A208	
494-3						
1			6:00-8:30 pm	M	Tech A208	
495-3						
1			6:00-8:30 pm	M	Tech A208	
496-3						
1			6:00-8:30 pm	W	Tech A208	
497-3						
1			6:00-8:30 pm	M	Tech A208	
504-4						
1			6:00-9:00 pm	Th	Tech A208	
505-4						
1			6:00-9:00 pm	W	Tech 140	
506-4						
1			9:00-12:00		S Tech A208	
540-4						
1			9:00-12:00		S Tech A208	
541-4 <sup>2</sup>						
1	1		6:00-9:00 pm	Th	Wham 137	
550-4						
1			6:00-9:00 pm	W	Tech A120	
570-2 to 6						Consent of coordinator
1	1	1	To be arranged			
580-4						Consent of coordinator
1			6:00-9:00 pm	Tu	Tech B20	
599-1 to 9						Consent of coordinator
1	1	1	To be arranged			
600-1 to 48						Consent of coordinator
1	1	1	To be arranged			

<sup>1</sup> Cross-listed with Engineering Technology.<sup>2</sup> Cross-listed with Guidance.

## T H E A T E R (THEA)

111a-3						
1			3:00-3:50	MTuWThF	Comm 153	
111b-3						
1			3:00-3:50	MTuWThF	Comm 153	
111c-3						
1			3:00-3:50	MTuWThF	Comm 153	
203-4						
1			11:00-12:00	MTuWTh	Comm 110	Harrison
204-4						
1	1		1:00-2:50	Tu Th	Comm 161	Harrison
207-4						Consent of department
1			10:00-10:50	MTuW F	Comm 242	Payne
208-1 to 3						
1	1	1	7:35-9:00 pm	Tu Th	Comm 161	
305-2						
1			9:00-11:00		S Comm 143	Payne
308-1 to 3						Consent of department
1	1	1	7:35-9:00 pm	Tu Th	Comm 137	
311-4						
1			9:00-9:50	MTuW F	Comm 110	Moe
314-4						
1			2:00-2:50	MTuW F	Comm 161	Abrams
322-2 to 12						Consent of department
1			8:00-4:50	MTuWThFS	Comm 137	Zoeckler



Course No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time		Instructor
402a-4	1	1	11:00-11:50	MTuW F	Comm 161
402b-4	1	1	1:00-1:50	MTuW F	Comm 137
403-4	1	1	8:00-8:50	MTuWTh	Comm 110
404-4	1	1	1:00-1:50	MTuW F	Comm 110
409-4	1	1	3:00-3:50	MTuWTh	Comm 161
410-3	1	1	3:00-3:50	M W F	Comm 110
411-4	1	1	1:00-1:50	MTuW F	Comm 110
412-4	1	1	9:00-9:50	MTuW F	Comm 242
414-4	1	1	10:00-10:50	MTuWTh	Comm 241
415-4	1	1	10:00-10:50	MTuWTh	Comm 241
432-4	1	1	4:00-4:50	MTuWTh	Comm 137
438-4	1	1	4:00-4:50	MTuW F	Comm 110
502-4	1	1	1:00-1:50	MTuW F	Comm 137
503-4	1	1	9:00-9:50	MTuW F	Comm 242
504-4	1	1	3:00-4:50	Tu Th	Comm 110
505-4	1	1	2:00-2:50	MTuW F	Comm 110
506-4	1	1	2:00-2:50	MTuW F	Comm 110
518-4	1	1	8:00-8:50	MTuWTh	Comm 110
519-1 to 12	1	1	8:00-4:50	MTuWThFS	Comm 137
526-3	1	1	9:00-11:50	S	Comm 110
530-1 to 4	1	1	To be arranged		
599-1 to 9	1	1	To be arranged		

402a  
Payne

McLeod

Abrams

Zoeckler

402a, 111a,b, or c

Zoeckler

311 or consent of instructor

Moe

Payne

Harrison

414

Harrison

111a,b, or c

Hendren

One theater

course

Payne

402a,b

Abrams

Zoeckler

Moe

Abrams

Moe

McLeod

Zoeckler

Consent of department

Zoeckler

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## ZOOLOGY (ZOOL)

102-5	General Invertebrate Zoology				GSA 201
1		2:00-2:50	Tu Th	Ag 166	
		1:00-2:50	M W F	LS 130	
2		2:00-2:50	Tu Th	Ag 166	
		8:00-9:50	M W F	LS 130	
3		2:00-2:50	Tu Th	Ag 166	
		8:00-9:50	Tu Th S	LS 130	
4		2:00-2:50	Tu Th	Ag 166	
		3:00-4:50	M W F	LS 130	
5		2:00-2:50	Tu Th	Ag 166	
		5:45-9:15 pm	Tu	LS 130	
		5:45-7:25 pm	Th	LS 130	
	1	2:00-2:50	Tu Th	Ag 166	
		1:00-2:50	M W F	LS 130	
	2	2:00-2:50	Tu Th	Ag 166	
		3:00-4:50	M W F	LS 130	
	3	2:00-2:50	Tu Th	Ag 166	
		10:00-11:50	M W F	LS 130	
	4	2:00-2:50	Tu Th	Ag 166	
		8:00-9:50	M W F	LS 130	
	5	2:00-2:50	Tu Th	Ag 166	
		5:45-9:15 pm	Tu	LS 130	
		5:45-7:25 pm	Th	LS 130	
103-5	General Vertebrate Zoology				GSA 201
1	1	8:00-8:50	M W	Ag 166	George
		8:00-9:50	Tu Th S	LS 208	
2	2	8:00-8:50	M W	Ag 166	George
		1:00-3:50	Tu Th	LS 208	

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time		Instructor
103-5	General Vertebrate Zoology				GSA 201
3	3	8:00-8:50	M W	Ag 166	George
		10:00-11:50	Tu Th S	LS 208	
	4	8:00-8:50	M W	Ag 166	George
		6:00-8:50 pm	Tu Th	LS 208	
	5	8:00-8:50	M W	Ag 166	George
		3:00-4:50	M W F	LS 208	
202-5	Comparative Anatomy of the Vertebrates				103
	1	8:00-8:50	Tu Th	LS 205	Brandon
		8:00-9:50	M W F	LS 208	
	2	8:00-8:50	Tu Th	LS 205	Brandon
		10:00-11:50	M W F	LS 208	
	3	8:00-8:50	Tu Th	LS 205	Brandon
		12:00-1:50	M W F	LS 208	
300-5	Vertebrate Embryology				202
1		9:00-9:50	Tu Th S	LS 205	Haas
		8:00-9:50	M W	LS 213	
2		9:00-9:50	Tu Th S	LS 205	Haas
		10:00-11:50	M W	LS 213	
3		9:00-9:50	Tu Th S	LS 205	Haas
		12:00-1:50	M W	LS 213	
	1	9:00-9:50	Tu Th S	Ag 166	Haas
		8:00-9:50	M W	LS 213	
	2	9:00-9:50	Tu Th S	Ag 166	Haas
		10:00-11:50	M W	LS 213	
	3	9:00-9:50	Tu Th S	Ag 166	Haas
		12:00-1:50	M W	LS 213	
	4	9:00-9:50	Tu Th S	Ag 166	Haas
		3:00-4:50	M W	LS 213	
303-4	General Ornithology				GSA 201
	1	8:00-8:50	Tu Th	Comm 114	George
		6:00-7:50 am	Tu Th	LS 204	
	2	8:00-8:50	Tu Th	Comm 114	George
		7:00-8:50 am	M W	LS 204	
306-4	Entomology				102
	1	1:00-1:50	Tu Th	LS 205	Downey
		2:00-3:50	Tu Th	LS 208	
	2	1:00-1:50	Tu Th	LS 205	Downey
		2:00-3:50	M W	LS 208	
309-5	Cytology				15 hrs of biology
	1	12:00-12:50	M W F	LS 205	Haas
		11:00-12:50	Tu Th	LS 213	
310-5	Animal Ecology				102, 103
1		2:00-2:50	M W F	LS 205	LeFebvre
		12:00-3:50	Tu	LS 204	
2		2:00-2:50	M W F	LS 205	LeFebvre
		1:00-4:50	Th	LS 204	
3		2:00-2:50	M W F	LS 205	LeFebvre
		8:00-11:50	M	LS 204	
	1	11:00-11:50	M W	LS 205	LeFebvre
		11:00-11:50		L 201	
		9:00-12:50	Tu	LS 204	
	2	11:00-11:50	M W	LS 205	LeFebvre
		11:00-11:50		L 201	
		9:00-12:50	Th	LS 204	
	3	11:00-11:50	M W	LS 205	
		11:00-11:50		L 201	
		8:00-11:50	S	LS 204	
GSA 312-3	Conservation of Natural Resources (See General Studies Area A for schedule)				
GSA 313-3	Evolution (See General Studies Area A for schedule)				
GSA 314-3	Man's Genetic Heritage (See General Studies Area A for schedule)				
GSA 315-3	History of Biology (See General Studies Area A for schedule)				
316-4 <sup>1</sup>	Insect Pests and Their Control				GSA 201
1		2:00-2:50	M W	LS 205	Downey
		1:00-2:50	Tu Th	LS 213	
2		2:00-2:50	M W	LS 205	Downey
		3:00-4:50	Tu Th	LS 213	
321-5	Histological Technique in Zoology				1 year of biology
1		10:00-10:50	W F	LS 205	Martan
		10:00-11:50	Tu Th S	LS 209	
322-2 to 5	Problems in Zoology				Consent of department
	4.25 grade point average, senior standing				

Course	No.—Hours	Descriptive Title	Days	Place	Prerequisite
Fall	Winter	Spring	Time		Instructor
382-1/2	Zoology Seminar for Seniors				Senior standing
1	1	4:00-4:50	Tu	LS 205	
2	2	4:00-4:50	Tu	LS G16	
3	3	4:00-4:50	Tu	LS 323	
	1	4:00-4:50	W	LS G16	
	2	4:00-4:50	W	LS 323	
	3	4:00-4:50	W	Comm 144	
400-2	Animal Taxonomy				1 year biology
1		10:00-10:50	W F	LS 205	
401-5	Genetics				15 hrs biology, and consent of instructor
1	1	9:00-9:50	M W F	LS 205	Englert
		8:00-9:50	Tu Th	LS 209	
2	2	9:00-9:50	M W F	LS 205	Englert
		10:00-11:50	M F	LS 209	
3	3	9:00-9:50	M W F	LS 205	Englert
		1:00-2:50	M F	LS 209	
4	4	9:00-9:50	M W F	LS 205	Englert
		3:00-4:50	M F	LS 209	
	5	9:00-9:50	M W F	LS 205	Englert
		1:00-2:50	Tu Th	LS 209	
402-4	Natural History of Invertebrates				1 year zoology including 102
1		12:00-12:50	M W	LS 204	Beatty
		1:00-4:50	Tu	LS 130	
403-4	Natural History of Vertebrates				1 year zoology including 103
	1	9:00-9:50	Tu Th	LS 205	Waring
		9:00-12:50	W	LS 204	
404-2 to 8	Zoology Field Studies				Consent of instructor
1	1	1	To be arranged		
406-4	Protozoology				1 year zoology including 102 or consent of instructor
	1	1:00-1:50	Tu Th	LS 213	Garioian
		2:00-3:50	Tu Th	LS 213	
407-5	Parasitology				1 year zoology including 102
1		8:00-8:50	M W	LS 205	Garioian
		8:00-9:50	Tu Th S	LS 213	
2		8:00-8:50	M W	LS 205	Garioian
		3:00-4:50	M W F	LS 213	
	1	10:00-10:50	M W	LS 205	Garioian
		9:00-10:50	Tu Th S	LS 213	
408-4	Herpetology				1 year zoology including 103
1		2:00-2:50	M W	LS 205	Brandon
		1:00-4:50	Tu	LS 204	
409-5	Histology of Organs				202
1		11:00-11:50	M	Ag 174	Martan
		11:00-11:50	W F	Ag 170	
		10:00-11:50	Tu Th	LS 213	
410-5	Vertebrate Paleontology				1 year zoology including 202 or geology 221
1		3:00-3:50	MTuWTh	To be arranged	Galbreath
		4:00-4:50	M W	To be arranged	
2		3:00-3:50	MTuWTh	To be arranged	Galbreath
		5:45-7:35 pm	W	To be arranged	
412-4	Advanced Entomology				306
1		11:00-11:50	W F	LS 204	Downey
		10:00-11:50	Tu Th	LS 213	
413-5	The Invertebrates				1 year zoology including 102
1		9:00-9:50	M W	LS 213	Beatty
		10:00-11:50	M W F	LS 213	
414-4	Fresh-Water Invertebrates				1 year zoology including 102
1		3:00-3:50	M W	LS 205	Beatty
		8:00-11:50	S	LS 130	
441-4	Developmental Biology				300 and cell phys or consent of instructor
1		1:00-1:50	Tu Th	LS 213	Haas
		2:00-3:50	Tu Th	LS 213	
459-4	Game Birds				1 year zoology including 103
1		5:45-7:25 pm	Tu	LS 205	Klimstra
		8:00-11:50	S	LS 204	
461-4	Mammalogy				1 year zoology including 103
1		11:00-11:50	Tu Th	LS 205	Stains
		8:00-11:50	F	LS 204	
r2		11:00-11:50	Tu Th	LS 205	Stains
		1:00-4:50	F	LS 204	



Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Fall	Winter	Spring				
463-4					15 hrs biology and consent of instructor	
1			5:45-7:25 pm	M	LS 205	Stains
			1:00-4:50		F LS 204	
2			5:45-7:25 pm	M	LS 205	Stains
			8:00-11:50		S LS 204	
465-4					1 year zoology, consent of instructor	
1			1:00-1:50	M W	LS 205	Lewis
			1:00-2:50	Tu Th	LS 204	
466-4					15 hrs biological science and consent of instructor	
1			1:00-1:50		W F LS 205	Lewis
			1:00-4:50	M	LS 204	
508-4					Consent of department	
1			3:00-3:50	Tu Th	LS 130	Garofian
			3:00-4:50	M W	LS 213	
510-4 <sup>2</sup>					Consent of department	
1			8:00-8:50	Tu Th	LS 204	LeFebvre
			8:00-11:50		S LS 209	
511-4					Consent of department	
1			8:00-8:50	Tu Th	LS 205	Stahl
			8:00-11:50		F LS 204	
512-3					Consent of department	
1			6:00-7:25 pm	M Th	LS 205	Stahl
513-3					Consent of department	
1			1:00-2:50	M W	LS 204	Fisher
520-5					Consent of department	
1			1:00-1:50	Tu Th	LS 130	
			1:00-2:50	M W F	LS 130	
521-4					Consent of department	
1			2:00-2:50	Tu F	LS 205	Stahl
			1:00-4:50		Th LS 204	
540-3					Consent of department	
1			6:00-7:25 pm	Tu Th	LS 205	Martan
542-3					Consent of department	
1			1:00-2:50	Tu Th	To be arranged	Galbreath
560-3					Consent of department	
1			8:00-8:50	M W F		Klimstra
561-4					Consent of department	
1			11:00-11:50	M	LS 130	Stains
			11:00-11:50		W LS 204	Stains
			10:00-11:50	Tu Th	LS 204	
566-4					Consent of department	
1			4:00-4:50		W F LS 205	Lewis
			1:00-4:50	M	LS 204	
577-3					Consent of department	
1			8:00-8:50	M W F	LS 205	Klimstra
578-4					Consent of department	
1			11:00-12:50		W F Ag 170	Englert
579-4 <sup>3</sup>					Consent of department	
1			12:00-12:50	Tu Th	LS 204	Waring
			9:00-12:50	M	LS 204	
580-4 <sup>2</sup>					Consent of department	
1			8:00-9:50	Tu Th	LS 204	
581-3					Consent of department	
1			8:00-8:50	M W F	LS 205	Galbreath
582-1/2					Consent of department	
1			4:00-4:50		Th Ag 166	
			4:00-4:50		Th Ag 166	
			4:00-4:50	Tu	Ag 166	
583a-1					Consent of department	
1			5:00-5:50 pm	W	LS 205	Fisher
583b-1					Consent of department	
1			5:00-5:50 pm	W	LS 205	Fisher
583c-1					Consent of department	
1			5:00-5:50 pm	W	LS 205	
596-3 to 12					Consent of department	
1	1	1	To be arranged			
599-2 to 9					Consent of department	
1	1	1	To be arranged			

Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		

600-3 to 48 Research and Dissertation ..... Consent of department

1 1 1 To be arranged

<sup>1</sup> Cross-listed with Plant Industries 317.

<sup>2</sup> Cross-listed with Botany.

<sup>3</sup> Cross-listed with Animal Industries.

## VOCATIONAL TECHNICAL INSTITUTE (VTI)

### GSA

101a-4 Introduction to Physical Science ..... GSA 101a-4

A1		10:00-10:50	MTuWTh	M3-101	Collins
A2		11:00-11:50	MTuWTh	M3-103	Collins
A3		3:00-3:50	MTuWTh	M3-101	Collins
TA4		1:00-1:50	MTuWTh	M3-101	Harbison
	A1	9:00-9:50	MTuWTh	M3-101	Collins
	A2	10:00-10:50	MTuWTh	M3-101	Collins
	A3	2:00-2:50	MTuWTh	M3-101	Collins
		A1	8:00-8:50	M3-103	Collins
		A2	10:00-10:50	M3-103	Collins
		A3	1:00-1:50	M3-101	Collins
	TA4	11:00-11:50	MTuWTh	M3-103	Harbison

101b-4 Introduction to Physical Science ..... GSA 101a-4

A1		8:00-8:50	MTuWTh	M3-103	Harbison
A2		9:00-9:50	MTuWTh	M3-103	Harbison
A3		2:00-2:50	MTuWTh	M3-103	Harbison
	A1	1:00-1:50	MTuWTh	M3-103	Harbison

### GSB

201b-4 Culture, Society, Behavior ..... GSB 201b-4

A1		8:00-8:50	MTuWTh	H4-233	
A2		12:00-12:50	MTuWTh	H4-233	
TA3		9:00-9:50	MTuWTh	H4-233	
	A1	10:00-10:50	MTuWTh	H4-233	
	TA2	12:00-12:50	MTuWTh	H4-233	

201c-4 Culture, Society, Behavior ..... Aviation student

A1		9:00-9:50	MTuWTh	H1-143	Miller
A2		10:00-10:50	MTuWTh	H1-143	
A3		2:00-2:50	MTuWTh	H1-143	Miller
A4		3:00-3:50	MTuWTh	Av Tech 1	
A5		11:00-11:50	MTuWTh	H1-143	
A6		4:00-4:50	MTuWTh	H1-143	Miller
	A1	8:00-8:50	MTuWTh	H1-143	Miller
	A2	9:00-9:50	MTuWTh	H1-143	
	A3	10:00-10:50	MTuWTh	H1-143	
	A4	1:00-1:50	MTuWTh	H1-143	Miller
	A5	2:00-2:50	MTuWTh	H1-143	Miller
	A6	3:00-3:50	MTuWTh	Av Tech 1	
		A1	9:00-9:50	H1-143	Miller
		A2	10:00-10:50	H1-143	Miller
		A3	11:00-11:50	H1-143	Miller
		A4	1:00-1:50	H1-143	
		A5	2:00-2:50	H1-143	
		A6	3:00-3:50	Av Tech 1	

211a-4 Political Economy I ..... Choate

A1		10:00-10:50	MTuWTh	M1-107	Choate
A2		12:00-12:50	MTuWTh	H1-143	Choate
A3		4:00-4:50	MTuWTh	M3-103	Choate
	A1	10:00-10:50	MTuWTh	M3-103	Choate
	A2	11:00-11:50	MTuWTh	M3-103	Choate
	A3	4:00-4:50	MTuWTh	M3-103	Choate
		A1	10:00-10:50	M1-107	Choate
		A2	12:00-12:50	M3-103	Choate
		A3	4:00-4:50	M3-103	Choate

211b-4 Political Economy II ..... Aviation student

A1		9:00-9:50	MTuWTh	M1-107	Rudoni
A2		11:00-11:50	MTuWTh	Av Tech 1	Cobb
A3		1:00-1:50	MTuWTh	M1-107	Rudoni
A4		12:00-12:50	MTuWTh	M1-107	Rudoni
A5		3:00-3:50	MTuWTh	M1-107	Cobb
A6		4:00-4:50	MTuWTh	M1-107	Cobb
	A1	10:00-10:50	MTuWTh	M1-107	Cobb

Course No.—Hours		Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter Spring				
211b-4 Political Economy II					
	A2	11:00-11:50	MTuWTh	Av Tech 1	Rudoni
	A3	12:00-12:50	MTuWTh	M1-107	Cobb
	A4	3:00-3:50	MTuWTh	M1-107	Rudoni
	A5	4:00-4:50	MTuWTh	M1-107	Rudoni
	A6	8:00-8:50	MTuWTh	M1-107	Cobb
	A1	8:00-8:50	MTuWTh	M1-107	Rudoni
	A2	11:00-11:50	MTuWTh	Av Tech 1	Cobb
	A3	12:00-12:50	MTuWTh	M1-107	Rudoni
	A4	1:00-1:50	MTuWTh	M1-107	Rudoni
	A5	3:00-3:50	MTuWTh	M1-107	Cobb
	A6	4:00-4:50	MTuWTh	M1-107	Cobb

**GSD****101-3 English Composition****Aviation student**

A1		8:00-8:50	M W F	H3-153	
A2		9:00-9:50	M W F	H3-153	
A3		10:00-10:50	M W F	H3-153	
A4		10:00-10:50	Tu Th S	H3-153	
TA5		10:00-10:50	M W F	H3-154	
A6		11:00-11:50	M W F	H3-153	
A7		11:00-11:50	Tu Th S	H3-153	
A8		1:00-1:50	M W F	H3-153	
		1:00-1:50	Tu Th		
A9		9:00-9:50		S H3-153	
TA10		1:00-1:50	M W F	H3-154	
A11		2:00-2:50	M W F	H3-153	
		2:00-2:50	Tu Th		
A12		8:00-8:50		S H3-153	
TA13		2:00-2:50	M W F	H3-154	
A14		3:00-3:50	M W F	H3-153	
		3:00-3:50	Tu Th		
A15		10:00-10:50		S H3-154	
TA16		3:00-3:50	M W F	H3-154	
		4:00-4:50	Tu Th		
A17		9:00-9:50		S H3-154	
A18		4:00-4:50	M W F	H3-154	
A19		4:00-4:50	M W F	Av Clm 1	
	A1	8:00-8:50	Tu Th S	H3-153	
	A2	9:00-9:50	Tu Th S	H3-153	
	A3	11:00-11:50	Tu Th S	H3-153	
	A4	11:00-11:50	Tu Th S	H3-154	
TA5		11:00-11:50	M W F	H3-153	
A6		12:00-12:50	M W F	H3-153	
A7		1:00-1:50	Tu Th		
		10:00-10:50		S H3-153	
A8		1:00-1:50	M W F	H3-154	
		2:00-2:50	Tu Th		
A9		10:00-10:50		S H3-154	
A10		4:00-4:50	M W F	Av Clm 1	
TA11		4:00-4:50	M W F	H3-153	
	A1	10:00-10:50	Tu Th S	H3-154	
	A2	1:00-1:50	M W F	H3-153	
		1:00-1:50	Tu Th		
	A3	9:00-9:50		S H3-153	
		3:00-3:50	Tu Th		
	A4	9:00-9:50		S H3-154	
		3:00-3:50	Tu Th		
	A5	9:00-9:50		S H3-153	
	A6	4:00-4:50	M W F	H3-153	
TA7		8:00-8:50	M W F	H3-153	
		11:00-11:50		S	
TA8		12:00-12:50	Tu Th	H3-153	
		4:00-4:50	Tu Th		
TA9		11:00-11:50		S H3-154	
TA10		12:00-12:50	M W F	H3-153	

**102-3 English Composition**

A1		12:00-12:50	M W F	H3-154	
A2		8:00-8:50	M W F	H3-154	
	A1	8:00-8:50	M W F	H3-154	
	A2	9:00-9:50	M W F	H3-154	
	A3	10:00-10:50	M W F	H3-154	
	A4	11:00-11:50	M W F	H3-154	
	A5	10:00-10:50	M W F	H3-153	
	A6	12:00-12:50	M W F	H3-154	



Course No.—Hours		Descriptive Title	Days			Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
		A7	1:00–1:50	M	W	F	H3-153
		A8	2:00–2:50	M	W	F	H3-154
		A9	3:00–3:50	M	W	F	H3-154
		A10	4:00–4:50	M	W	F	H3-154
		TA11	4:00–4:50	M	W	F	H3-153
103–3	Oral Communication of Ideas					Aviation student	
		A1	8:00–8:50	MTuWTh			H9-101 Johnston
		A2	10:00–10:50	MTuWTh			H9-101 Workun
		A3	11:00–11:50	MTuWTh			H9-101 Johnson
		A4	12:00–12:50	MTuWTh			H9-101 Workun
		A5	2:00–2:50	MTuWTh			H9-101 Johnson
		A6	4:00–4:50	MTuWTh			H9-101 Workun
102–3	English Composition					GSD 101	
		A1	9:00–9:50	M	W	F	H3-154
		A2	9:00–9:50	M	W	F	H3-154
		A3	10:00–10:50	M	W	F	H3-154
		A4	12:00–12:50	M	W	F	H3-154
		A5	1:00–1:50	M	W	F	H3-154
		A6	2:00–2:50	M	W	F	H3-154
		A7	2:00–2:50	M	W	F	H3-153
		A8	3:00–3:50	M	W	F	H3-154
		TA9	8:00–8:50	M	W	F	H3-154
		TA10	4:00–4:50	M	W	F	H3-154
		TA11	11:00–11:50	M	W	F	H3-153
103–3	Oral Communication of Ideas					Aviation student	
		A1	8:00–8:50	MTuWTh		Av Tech 1	Workun
		A2	8:00–8:50	MTuWTh		H9-101	Johnson
		A3	10:00–10:50	MTuWTh		H9-101	Workun
		A4	12:00–12:50	MTuWTh		H9-101	Johnson
		A5	2:00–2:50	MTuWTh		H9-101	Workun
		A6	4:00–4:50	MTuWTh		H9-101	Johnson
		A1	8:00–8:50	MTuWTh		Av Tech 1	Workun
		A2	8:00–8:50	MTuWTh		H9-101	Johnson
		A3	9:00–9:50	MTuWTh		H9-101	Johnson
		A4	12:00–12:50	MTuWTh		H9-101	Workun
		A5	2:00–2:50	MTuWTh		H9-101	Johnson
		A6	4:00–4:50	MTuWTh		H9-101	Workun

# VTI A

101a–5	Automotive		Laboratory—Engines				
		1	8:00–10:50	MTuWThF		L2-108	White
		2	11:00–1:50	MTuWThF		L2-108	Jones
		1	8:00–10:50	MTuWThF		L2-108	White
		1	8:00–10:50	MTuWTh		L2-108	White
101b–5	Automotive		Laboratory—Brakes and Steering				
		1	8:00–10:50	MTuWThF		L1-108	Ray
		1	8:00–10:50	MTuWThF		L1-108	Ray
		2	11:00–1:50	MTuWThF		L1-108	Jones
		1	8:00–10:50	MTuWThF		L1-108	Ray
101c–5	Automotive		Laboratory—Ignition and Carburetion				
		1	2:00–4:50	MTuWThF		L2-108	McDonald
		1	2:00–4:50	MTuWThF		L2-108	McDonald
		1	11:00–1:50	MTuWThF		L2-108	Jones
		2	2:00–4:50	MTuWThF		L2-108	McDonald
125a–5	Automotive		Theory—Engines				
		1	11:00–11:50	MTuWThF		L2-105	White
		2	4:00–4:50	MTuWThF		L2-105	Jones
		1	11:00–11:50	MTuWThF		L2-105	White
		1	11:00–11:50	MTuWThF		L2-105	White
125b–5	Automotive		Theory—Brakes and Steering				
		1	3:00–3:50	MTuWThF		L2-105	Ray
		1	4:00–4:50	MTuWThF		L2-105	Ray
		2	3:00–3:50	MTuWThF		L2-105	Jones
		1	4:00–4:50	MTuWThF		L2-105	Ray
125c–5	Automotive		Theory—Ignition and Carburetion				
		1	9:00–9:50	MTuWThF		L2-105	McDonald
		1	9:00–9:50	MTuWThF		L2-105	McDonald
		1	3:00–3:50	MTuWThF		L2-105	Jones
		2	9:00–9:50	MTuWThF		L2-105	McDonald
201a–5	Automotive		Laboratory—Power Options				
		1	2:00–4:50	MTuWThF		L2-102	Runkle
		1	2:00–4:50	MTuWThF		L2-102	Runkle
		1	2:00–4:50	MTuWThF		L2-102	Runkle
201b–5	Automotive		Laboratory—Transmission System				
		1	9:00–11:50	MTuWThF		L2-102	Wiley

VTIA 101c–5

VTIA 101c–5

VTIA 101c–5

VTIA 101c–5

VTIA 101c–5

VTIA 101c–5

## 200 VOCATIONAL-TECHNICAL INSTITUTE (VTI)

Course No.—Hours		Descriptive Title	Days	Place	Prerequisite Instructor	
Fall	Winter	Spring	Time			
201b-5	Automotive	Laboratory—Transmission System			VTIA 101c-5	
	1	9:00-11:50	MTuWThF	L2-102	Willey	
		1	9:00-11:50	MTuWThF	L2-102	Willey
201c-5	Automotive	Laboratory—Diagnosis			VTIA 101c-5	
	1	2:00-4:50	MTuWThF	L1-108	Shelton	
		1	2:00-4:50	MTuWThF	L1-108	Shelton
		1	2:00-4:50	MTuWThF	L1-108	Shelton
220a-5	Automotive	Theory—Power Options			VTIA 125c-5	
	1	10:00-10:50	MTuWThF	L2-105	Runkle	
		1	10:00-10:50	MTuWThF	L2-105	Runkle
		1	10:00-10:50	MTuWThF	L2-105	Runkle
220b-5	Automotive	Theory—Transmission Systems			VTIA 125c-5	
	1	8:00-8:50	MTuWThF	L2-105	Willey	
		1	8:00-8:50	MTuWThF	L2-105	Willey
		1	8:00-8:50	MTuWThF	L2-105	Willey
220c-5	Automotive	Theory—Diagnosis			VTIA 125c-5	
	1	1:00-1:50	MTuWThF	L2-105	Shelton	
		1	1:00-1:50	MTuWThF	L2-105	Shelton
		1	1:00-1:50	MTuWThF	L2-105	Shelton

## VTI B

100-3	Clerical Procedures					
	1		10:00-10:50	M W F	F1-110	
101a-6	Accounting I					
1	1		8:00-9:50	MTuWThF	F1-111	Kuruc
	τ2		10:00-11:50	MTuWThF	TBA	
2			10:00-11:50	MTuWThF	F1-111	Vaughn
3			1:00-2:50	MTuWThF	F1-111	Vaughn
4			3:00-4:50	MTuWThF	F1-111	Markwell
5			11:00-12:50	MTuWThF	F1-103	Kuruc
τ6			1:00-2:50	MTuWThF	TBA	
τ7			3:00-4:50	MTuWThF	TBA	
101b-5	Accounting II					VTIB 101a-6
	1	1	8:00-8:50	MTuWThF	F1-103	Markwell
	2		9:00-9:50	MTuWThF	F1-103	Vaughn
	3		2:00-2:50	MTuWThF	F1-103	Vaughn
	4		3:00-3:50	MTuWThF	F1-103	Vaughn
	5		4:00-4:50	MTuWThF	F1-111	
101c-4	Accounting III					VTIB 101b-5
		1	8:00-8:50	MTuWThF	F1-111	Vaughn
		2	10:00-10:50	MTuWThF	F1-111	Markwell
		3	1:00-1:50	MTuWThF	F1-111	Vaughn
		4	3:00-3:50	MTuWThF	F1-103	Vaughn
		τ5	4:00-4:50	MTuWThF	F1-103	
104-5	Secretarial Accounting					
1	1	1	10:00-10:50	MTuWThF	F1-103	Markwell
	2		1:00-1:50	MTuWThF	F1-103	Kuruc
126-3	Fundamentals of Business					(Business majors only)
1	1	1	1:00-1:50	M W F	F1-109	Kuruc
2	2		2:00-2:50	M W F	F1-109	Markwell
130-4	Job Cost Accounting					VTIB 101c-4
1			8:00-8:50	MTuWThF	F1-103	Cundiff
2			9:00-9:50	MTuWThF	F1-103	Markwell
3			10:00-10:50	MTuWThF	F1-106	
τ4			2:00-2:50	MTuWThF	TBA	
τ5			3:00-3:50	MTuWThF	TBA	Vaughn
201a-4	Accounting IV					VTIB 101c-4
1			1:00-1:50	MTuWThF	F1-103	Cundiff
τ2			11:00-11:50	MTuWThF	TBA	
201b-4	Accounting V					VTIB 201a-4
		1	11:00-11:50	MTuWThF	F1-103	Markwell
		τ2	1:00-1:50	MTuWThF	F1-103	
204-4	Process Cost Accounting					VTIB 130-4
	1		9:00-9:50	MTuWThF	F1-108	Markwell
	2		10:00-10:50	MTuWThF	F1-108	Markwell
	τ3		11:00-11:50	MTuWThF	F1-108	
226a-4	Business Law I					
1	1	1	11:00-11:50	MTuWTh	F1-109	Cundiff
	τ2	τ2	4:00-4:50	MTuWTh	F1-108	
226a-4	Business Law II					VTIB 226a-4
1	1		9:00-9:50	MTuWTh	F1-109	Cundiff
227-5	Office Administration and Supervision					
1	1		3:00-3:50	MTuWThF	F1-109	Johnston
τ2	τ2		4:00-4:50	MTuWThF	F1-109	
230-5	Auditing					VTIB 101c-4
		1	8:00-8:50	MTuWThF	F1-109	Cundiff
		2	10:00-10:50	MTuWThF	F1-109	Cundiff

Course No.	Hours		Descriptive Title	Days	Place	Prerequisite Instructor
	Fall	Winter				
233-5	Federal Taxes					VTIB 201a-4
	1		8:00-8:50	MTuWThF	F1-109	Cundiff
	2		10:00-10:50	MTuWThF	F1-109	Cundiff
	T3		2:00-2:50	MTuWThF	TBA	
235-4	Business Statistics					VTIB 201a-4
	1		11:00-11:50	MTuWThF	F1-103	Vaughn
	2		12:00-12:50	MTuWThF	F1-103	
	3		2:00-2:50	MTuWThF	F1-108	
	T4		3:00-3:50	MTuWThF	F1-108	
275-4	Credits and Collections					
	1		1:00-1:50	MTuWThF	F1-108	
	2		2:00-2:50	MTuWThF	F1-111	Vaughn

### VTI C

101a-7	Cosmetology Laboratory					
	1		11:00-1:50	MTuWThF	N1-107	Cassidy
			3:00-5:50	MTuWThF	N1-101	Cassidy
	2		8:00-10:50	MTuWThF	N1-107	Hill
			2:00-4:50	MTuWThF	N1-107	Hill
101b-7	Cosmetology Laboratory					VTIC 101a-7
	1		8:00-10:50	MTuWThF	N1-101	Goss
			12:00-12:50	MTuWThF	N1-101	Goss
	1		11:00-1:50	MTuWThF	N1-107	Hill
			3:00-5:50	MTuWThF	N1-101	Hill
	2		8:00-10:50	MTuWThF	N1-107	Goss
			2:00-4:50	MTuWThF	N1-107	Goss
101c-7	Cosmetology Laboratory					
	1		8:00-10:50	MTuWThF	N1-101	Cassidy
			12:00-2:50	MTuWThF	N1-101	Cassidy
	1		11:00-1:50	MTuWThF	N1-107	Goss
			3:00-5:50	MTuWThF	N1-101	Goss
	2		8:00-10:50	MTuWThF	N1-107	Cassidy
			2:00-4:50	MTuWThF	N1-107	Cassidy
101d-7	Cosmetology Laboratory					
	1		8:00-10:50	MTuWThF	N1-101	Hill
			12:00-2:50	MTuWThF	N1-101	Hill
125a-5	Cosmetology Theory					
	1		10:00-10:50	MTuWThF	N1-106	Blanton
	2		12:00-2:50	MTuWThF	N1-106	Blanton
125b-5	Cosmetology Theory					
	1		3:00-3:50	MTuWThF	N1-106	Blanton
	1		10:00-10:50	MTuWThF	N1-106	Blanton
	2		12:00-12:50	MTuWThF	N1-106	Blanton
125c-5	Cosmetology Theory					
	1		3:00-3:50	MTuWThF	N1-106	Blanton
	1		10:00-10:50	MTuWThF	N1-106	Blanton
	2		12:00-12:50	MTuWThF	N1-106	Blanton
125d-5	Cosmetology Theory					
	1		3:00-3:50	MTuWThF	N1-106	Blanton

### VTI D

101a-7	Graphics					
	1		8:00-10:50	MTuWThF	M1-101	Beauchamp
	2		2:00-4:50	MTuWThF	M1-101	Lampman
101b-7	Graphics					
	1		8:00-10:50	MTuWThF	M1-101	Beauchamp
	2		2:00-4:50	MTuWThF	M1-101	Lampman
101c-7	Graphics					
	1		8:00-10:50	MTuWThF	M1-101	Beauchamp
	2		2:00-4:50	MTuWThF	M1-101	Lampman
110a-5	Architectural Drafting					
	1		8:00-10:50	M W F	M1-108	Rutledge
	2		11:00-11:50	M W F	H1-144	Rutledge
	1		2:00-4:50	M W F	M1-108	Rutledge
110b-3	Architectural Drafting					VTID 110a-5
	1		8:00-10:50	Tu Th	M1-108	Lougeay
	2		11:00-1:50	Tu Th	M1-108	Lougeay
	1		8:00-10:50	M W	M1-108	Lougeay
121a-2	Architectural Design					
	1		8:00-10:50	Tu Th	H1-144	Lougeay
	2		2:00-4:50	ThF	M1-113	Lete
	1		11:00-1:50	M F	M1-108	Lete
121b-4	Architectural Design					
	1		2:00-4:50	M W F	M1-108	Lete
	2		2:00-4:50	M W F	M1-113	Rutledge



## 202 VOCATIONAL-TECHNICAL INSTITUTE (VTI)

Course No.—Hours		Descriptive Title	Days			Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
127-3	Hydraulic and Pneumatic Controls						
t1		8:00-8:50	M	W	F	L1-105	
	1	2:00-2:50	M	W	F	L1-105	Beauchamp
	t2	8:00-8:50	M	W	F	L1-105	
	t1	8:00-8:50	M	W	F	L1-105	
146a-3	Freehand Architectural Graphics						
1		8:00-10:50	Tu	Th		H1-144	Lougeay
2		11:00-1:50	Tu	Th		H1-144	Lete
	1	8:00-10:50	Tu	Th		M1-113	Lete
146b-3	Freehand Architectural Graphics						
	1	11:00-1:50	Tu	Th		M1-113	Lete
	2	2:00-4:50	Tu	Th		H1-144	Rutledge
	1	8:00-10:50			F	M1-113	Lougeay
		11:00-1:50		W		M1-113	
147-3	History of Architecture						
1		1:00-1:50	M	W	F	M1-112	Lougeay
2		8:00-8:50	M	W	F	M1-112	Lougeay
	1	8:00-8:50	M	W	F	M1-112	Lougeay
150-3	Basic Materials of Construction						
	1	12:00-12:50	M	W	F	M1-112	Bassett
	1	3:00-3:50	M	W	F	M1-112	Bassett
151-4	Materials and Methods of Construction						
	1	1:00-4:50	Tu	Th		M1-113	Lete
	2	1:00-4:50	Tu	Th		M1-113	Little
152-2	Site Engineering						VTID 114a, GSD 114c
1		8:00-9:50	Tu	Th		M1-113	Bassett
2		2:00-3:50	Tu	Th		M1-113	Bassett
153-4	Mechanics and Strength of Materials						GSD 114c
	1	11:00-11:50	MTu	ThF		M1-112	Lougeay
175a-3	Technical Drawing						(Aviation only)
1		3:00-3:50	MTuWThF			H3-147	
2		10:00-10:50	MTuWThF			H3-147	
3		9:00-9:50	MTuWThF			H3-147	
4		3:00-4:50	M	W		Av Tech 3	
		3:00-3:50			F		
	t5	2:00-2:50	MTuWThF			H3-147	
	1	9:00-9:50	MTuWThF			H3-147	
	2	2:00-2:50	MTuWThF			H3-147	
	3	3:00-4:50	M	W		Av Tech 3	
		3:00-3:50			F		
	1	3:00-4:50	M	W		Av Tech 3	
		3:00-3:50			F		
175b-3	Technical Drawing						
	1	11:00-11:50	MTuWThF			H3-147	
	2	12:00-12:50	MTuWThF			H3-147	
175c-3	Technical Drawing						
	1	12:00-12:50	MTuWThF			H3-147	
	2	10:00-10:50	MTuWThF			H3-147	
178-3	Basic Wood Drafting						
	1	2:00-3:50	M		F	L4-106	Osborn
		2:00-2:50		W		L4-106	
179-3	Furniture, Drafting and Design						
	1	2:00-3:50	M		F	L4-106	Osborn
		2:00-2:50		W		L4-106	
201a-5	Machine Drafting and Design						
1		11:00-1:50	MTuWThF			M1-101	Muhich
201b-5	Machine Drafting and Design						
	1	11:00-1:50	MTuWThF			M1-101	Muhich
201c-7	Machine Drafting and Design						
	1	11:00-1:50	MTuWThF			M1-101	Muhich
210a-3	Construction						
	1	11:00-11:50	M	W	F	M1-112	Bassett
210b-3	Construction						VTID 210a-3
	1	9:00-9:50	M	W	F	M1-112	Bassett
221a-4	Architectural Design						VTID 121b
1		8:00-10:50	M	W	F	M1-113	Little
2		2:00-4:50	M	W	F	M1-113	Little
221b-4	Architectural Design						
	1	8:00-10:50	M	W	F	M1-108	Little
	2	11:00-1:50	M	W	F	M1-108	Little
221c-4	Architectural Design						
	1	11:00-1:50	M	W	F	H1-144	Rutledge
	2	8:00-11:50	M	W	F	H1-144	Little
225-3	Kinematics						
1		2:00-2:50	M	W	F	M1-105	Beauchamp
226a-2	Statics and Strength of Materials						
1		9:00-9:50	Tu	Th		L1-105	Lampman
2		10:00-10:50	Tu	Th		L1-105	Lampman

Course No.—Hours	Descriptive Title	Days			Place	Prerequisite Instructor
Fall	Winter	Spring	Time			
226b-3	Statics and Strength of Materials					
1		9:00-9:50	M	W	F	M1-112 Lampman
2		10:00-10:50	M	W	F	M1-112 Lampman
227-3	Tool Design					
1		10:00-10:50	M	W	F	M1-105 Lampman
250a-4	Materials and Methods Construction					
1		2:00-4:50	M	W	F	M1-108 Lete
2		11:00-1:50	M	W	F	M1-113 Lete
250b-4	Materials and Methods Construction					
1		11:00-1:50	M	W	F	M1-113 Rutledge
2		8:00-10:50	M	W	F	M1-113 Lete
250c-4	Materials and Methods Construction					
1		8:00-11:50	Tu	Th		M1-108 Rutledge
2		8:00-11:50	Tu	Th		M1-113 Little
254-4	Mechanical Equipment of Buildings					
1		2:00-2:50	MTuWTh			M1-112 Bassett
258-4	Structural Elements					
1		11:00-11:50	MTuWTh			M1-112 Bassett
2		10:00-10:50	MTuWTh			M1-112 Bassett
283-3	Construction and Cost Estimating					
1		8:00-8:50	Tu			M1-112 Bassett
		8:00-9:50		Th		M1-112 Bassett
2		1:00-1:50	Tu			M1-112 Bassett
		1:00-2:50		Th		M1-112 Bassett
290a-3	Theory of Structures					
1		9:00-10:50	Tu			M1-112 Bassett
		10:00-10:50		Th		M1-112 Bassett
290b-3	Theory of Structures					
1		10:00-10:50	M	W	F	M1-112 Bassett
2		12:00-12:50	M	W	F	M1-112 Bassett

# VTI E

100a-5	Data Processing Math					
1				9:00-9:50	MTuWThF	H4-233
2				10:00-10:50	MTuWThF	H4-233 Dick
3				2:00-2:50	MTuWThF	H4-233
1				10:00-10:50	MTuWThF	H8-140
100b-4	Data Processing Math					
1				1:00-1:50	MTuWTh	H4-233 Robb
2				4:00-4:50	MTuWTh	H8-140 Robb
1				9:00-9:50	MTuWTh	H8-140 Robb
101a-3	Automatic Data Processing Machines					
1				8:00-8:50	MTuWThF	H8-140 Humphreys
2				11:00-11:50	MTuWThF	H8-140 Humphreys
3				12:00-12:50	MTuWThF	H8-140 Dick
1				1:00-1:50	MTuWThF	H8-140 Humphreys
101b-5	Automatic Data Processing Machines					
1				8:00-9:50	MTuWThF	H8-140 Humphreys
2				11:00-12:50	MTuWThF	H8-140 Dick
3				2:00-3:50	MTuWThF	H8-140 Dick
1				3:00-4:50	MTuWThF	H8-140 Humphreys
103-5	Computer Programming					
1				8:00-9:50	MTuWThF	H8-235 Dick
2				12:00-1:50	MTuWThF	H8-235 Humphreys
104-3	Data Processing Applications					
1				11:00-11:50	MTuWThF	H4-136 Dick
2				2:00-2:50	MTuWThF	H4-136 Dick
107-2	Data Processing Information					
1				7:00-9:00	M	H4-233
202a-5	Scientific Computer Program					
1				3:00-4:50	MTuWThF	H8-235 Humphreys
202b-5	Scientific Computer Program					
1				11:00-12:50	MTuWThF	H8-235 Humphreys
203a-5	Business Computer Program					
1				9:00-10:50	MTuWThF	H8-235 Robb
2				1:00-2:50	MTuWThF	H8-235
203b-5	Business Computer Program					
1				8:00-9:50	MTuWThF	H8-235 Robb
2				3:00-4:50	MTuWThF	H8-235
205-5	Systems Design and Development					
1				8:00-8:50	MTuWThF	H4-233 Robb
2				11:00-11:50	MTuWThF	H4-233
3				12:00-12:50	MTuWThF	H4-233
206a-3	Programming Systems					
1				10:00-10:50	MTuWThF	H4-233 Robb
2				2:00-2:50	MTuWThF	H4-233

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time	
206b-7	Programming Systems			VTIE 206a
	1	10:00-11:50	MTuWThF	H8-235 Robb
	2	3:00-4:50	MTuWThF	H8-235
207-3	Data Processing Field Project			VTIE 206a
	1	By appointment		H8-235 Robb
		MTuWThF		

## VTI F

101a-5	Product Woodworking Laboratory			
	1	9:00-11:50	M W F	L4-108 Osborn
		8:00-10:50	Tu Th	L4-108
101b-5	Product Woodworking Laboratory			
	1	9:00-11:50	M W F	L4-108 Osborn
		8:00-10:50	Tu Th	L4-108
101c-5	Product Woodworking Laboratory			
	1	9:00-11:50	M W F	L4-108 Osborn
		8:00-10:50	Tu Th	L4-108
125a-3	Product Woodworking Theory			
	1	8:00-8:50	M W F	L4-106 Osborn
125b-3	Product Woodworking Theory			
	1	8:00-8:50	M W F	L4-106 Osborn
125c-3	Product Woodworking Theory			
	1	8:00-8:50	M W F	L4-106 Osborn
128-4	Wood Technology			
	1	12:00-12:50	M W	L4-106 Rice
		11:00-12:50	Tu Th	L4-106
129-3	Wood Finishing			
	1	2:00-2:50	M W F	L4-106 Osborn
130-3	Lumber Seasoning			
	1	9:00-9:50	M W F	L4-106 Rice
131-2	Lumber Grading			
	1	11:00-11:50	Tu	L4-106 Rice
		11:00-12:50	Th	
201a-5	Product Woodworking Laboratory			
	1	2:00-4:50	MTuWThF	L4-108 Rice
201b-5	Product Woodworking Laboratory			
	1	2:00-4:50	MTuWThF	L4-108 Rice
201c-5	Product Woodworking Laboratory			
	1	2:00-4:50	MTuWThF	L4-108 Rice
225a-3	Product Woodworking Theory			
	1	1:00-1:50	M W F	L4-106 Rice
225b-3	Product Woodworking Theory			
	1	1:00-1:50	M W F	L4-106 Rice
225c-3	Product Woodworking Theory			
	1	1:00-1:50	M W F	L4-106 Rice
232-2	Wood Preservation			
	1	8:00-8:50	Tu Th	L4-106 Rice
250-3	Plant Organization and Operation			
	1	9:00-9:50	M W F	L4-106 Rice

## VTI G

102-3	Technical Writing			(Aviation only)
	1	9:00-9:50	M W F	H3-154 Crowe
	2	12:00-12:50	M W F	H3-153 Crowe
	3	4:00-4:50	M W F	Av Tech 2 Crowe
	4	10:00-10:50	M W F	M3-103
	t5	3:00-3:50	M W F	M3-103
	1	9:00-9:50	M W F	H3-153 Crowe
	2	1:00-1:50	M W F	M3-103
	3	4:00-4:50	M W F	Av Tech 3
	t4	12:00-12:50	M W F	M3-103
	1	9:00-9:50	M W F	M3-103 Crowe
	2	2:00-2:50	M W F	M3-103 Crowe
	3	4:00-4:50	M W F	Av Tech 1 Crowe
106-0	Elementary Mathematics			
	1	9:00-9:50	MTuWTh	H9-101
	t2	4:00-4:50	MTuWTh	H3-153
	1	12:00-12:50	MTuWTh	H1-143
	t2	4:00-4:50	MTuWTh	H1-143
	t1	4:00-4:50	MTuWTh	H1-143
107-3	Technical Math			(Aviation only)
	1	8:00-8:50	M W F	H3-151
	2	9:00-9:50	M W F	H3-151
	3	10:00-10:50	M W F	H3-151
	4	12:00-12:50	M W F	H3-151
	5	2:00-2:50	M W F	H3-151



Course No.—Hours		Descriptive Title	Days			Place	Prerequisite Instructor
Fall	Winter	Spring	Time				
6			3:00-3:50	M	W	F	Av Tech 2
7			4:00-4:50	M	W	F	H3-151
78			3:00-3:50	M	W	F	H3-151
	1		9:00-9:50	M	W	F	H3-151
	2		10:00-10:50	M	W	F	H3-151
	3		1:00-1:50	M	W	F	H3-151
	4		3:00-3:50	M	W	F	Av Tech 3
	75		4:00-4:50	M	W	F	H3-151
		1	3:00-3:50	M	W	F	Av Tech 2
		72	4:00-4:50	M	W	F	H3-151
115a-3	Introduction to Chemistry						
	1		1:00-2:50	M	W	F	F3-144
	2		3:00-4:50	M	W	F	F3-144
73			9:00-10:50	M	W	F	F3-144
		1	9:00-10:50	M	W	F	F3-144
		72	9:00-11:50		Tu	Th	F3-144
115b-2	Introduction to Chemistry						VTIG 115a
	1		1:00-1:50	M	W	F	F3-144
118-3	Applied Calculus						GSD 114c
	71		9:00-9:50	M	W	F	H9-101
		1	11:00-11:50	M	W	F	H9-101
		2	1:00-1:50	M	W	F	H9-101
120-4	Basic Applied Physics						GSA 101a
	1		8:00-8:50	M	W		Collins
			8:00-9:50		Tu	Th	
	72		11:00-11:50	M	W		Collins
			11:00-12:50		Tu	Th	
		1	8:00-8:50	M	W		Collins
			8:00-9:50		Tu	Th	
		2	10:00-10:50	M	W		Collins
			10:00-11:50		Tu	Th	
	73		2:00-2:50	M	W		Collins
			2:00-3:50		Tu	Th	
141-5	Introduction to Physiology						
	1		8:00-8:50	MTuWThF			F3-144
		1	8:00-8:50	MTuWThF			F3-144
232-4	Labor Management Relations						
	1		1:00-1:50	MTuWTh			F1-106
	2		2:00-2:50	MTuWTh			F1-103
		1	1:00-1:50	MTuWTh			F1-111
		1	12:00-12:50	MTuWTh			F1-108
		2	1:00-1:50	MTuWTh			F1-112
111a-5	College Algebra and Trigonometry						
	1		9:00-9:50	MTuWThF			M3-103
	2		9:00-9:50	MTuWThF			M1-112
	3		3:00-3:50	MTuWThF			M1-112
	4		3:00-3:50	MTuWThF			H1-143
	5		4:00-4:50	MTuWThF			M1-112
	6		11:00-11:50	MTuWThF			H3-151
		1	8:00-8:50	MTuWThF			H3-151
		2	9:00-9:50	MTuWThF			M1-107
		3	10:00-10:50	MTuWThF			M3-110
		4	11:00-11:50	MTuWThF			H3-151
		5	3:00-3:50	MTuWThF			H3-153
		6	4:00-4:50	MTuWThF			M1-112
		1	9:00-9:50	MTuWThF			H3-151
		2	10:00-10:50	MTuWThF			H3-151
		3	11:00-11:50	MTuWThF			H3-151
		4	1:00-1:50	MTuWThF			H3-151
		5	2:00-2:50	MTuWThF			H3-151
		6	3:00-3:50	MTuWThF			H1-143

## VTI H

112-4	Jury Charge						VTIS 104c
		1	10:00-10:50	MTuWThF			Miriani
120a-6	Machine Shorthand I						
	1		3:00-4:50	MTuWThF			McInturff
120b-6	Machine Shorthand 2						
	1		3:00-4:50	MTuWThF			McInturff
120c-6	Machine Shorthand 3						
		1	3:00-4:50	MTuWThF			McInturff
210-4	Two-Voice Testimony						
		1	11:00-11:50	MTuWThF			Miriani

## VTI J

101a-6	Camera and Offset—Lab						
	1		11:00-1:50	MTuWThF		L3-110	Britt

Course No.—Hours		Descriptive Title		Days		Place		Prerequisite Instructor
Fall	Winter	Spring	Time					
101b-6			Automatic Platen—Lab					
	1		11:00-1:50	MTuWThF		L3-110		Britt
101c-6			Offset and Camera—Lab					VTIJ 101a
	1		11:00-1:50	MTuWThF		L3-110		Britt
125a-3			Camera and Offset—Theory					
	1		10:00-10:50	M W F		L3-109		Britt
125b-3			Automatic Platen—Theory					
	1		10:00-10:50	M W F		L3-109		Britt
125c-3			Offset and Camera—Lab					
	1		10:00-10:50	M W F		L3-109		Britt
153-3			Layout and Design					
	1		2:00-2:50	M W F		L3-109		Britt
201a-6			Linotype, Intertype—Lab					VTIJ 101a and 125a
	1		8:00-10:50	MTuWThF		L3-110		Cornell
201b-6			Linotype, Ludlow—Lab					VTIJ 201a
	1		8:00-10:50	MTuWThF		L3-110		Cornell
201c-6			Letterpress, Offset Production					VTIJ 201a and 101b
	1		8:00-10:50	MTuWThF		L3-110		Cornell
225a-3			Linotype, Intertype—Theory					VTIJ 101a & 125a
	1		11:00-11:50	M W F		L3-109		Cornell
225b-3			Linotype, Ludlow—Theory					
	1		11:00-11:50	M W F		L3-109		Cornell
225c-3			Letterpress, Offset—Theory					
	1		11:00-11:50	M W F		L3-109		Cornell
251-3			Estimating and Costs					
	1		9:00-9:50	M W F		L3-109		Britt

## VTI K

101a-3			Calculating Machines I					
	1	1	10:00-10:50	MTuWThF		F1-113		Johnston
	2	2	11:00-11:50	MTuWThF		F1-113		Johnston
	3		2:00-2:50	MTuWThF		F1-113		Reed
	T4		3:00-3:50	MTuWThF		F1-113		Kuruc
101b-3			Calculating Machines II					VTIK 101a
	1	1	1:00-1:50	MTuWThF		F1-113		Johnston

## VTI L

101-6			Reciprocating Powerplants					
	1	1	9:00-9:50	M W F		Av Clm 1		Redmond
			10:00-12:50	M W F		Av Lab		
102-6			Carburetion and Lubrication					
	1	1	2:00-2:50	M W F		Av Clm 2		Shafer
			9:00-12:50	M W F		Av Lab		
103-6			Aircraft Electricity—Generator-Alternator					
	1	1	8:00-8:50	MTuWThF		Av Clm 1		DaRosa
			9:00-10:50	M W F		Av Lab		
104-5			Propellers					
	1	1	9:00-9:50	Tu Th		Av Clm 2		Redmond
			2:00-2:50		F	Av Clm 1		
			10:00-10:50	Tu Th		Av Lab		
			12:00-12:50	Tu Th		Av Lab		
105-4			Aircraft Instruction					
	1	1	12:00-12:50		W	Av Clm 2		Shafer
			4:00-4:50	Tu Th		Av Clm		
			2:00-3:50	Tu Th		Av Lab		
106-5			Aircraft Ignition—Starting Systems					
	1	1	8:00-8:50		W	Av Clm 3		
			11:00-11:50	Tu Th		Av Clm 2		
			8:00-10:50	Tu Th		Av Lab		
107-4			Fabric—Wood—Doping					
	1	1	9:00-9:50		W	Av Clm 2		
			3:00-3:50		Th	Av Clm 1		
			12:00-12:50		Th	Av Lab		
			1:00-3:50	Tu		Av Lab		
108-6			Jet Propulsion Powerplant					
	1	1	11:00-11:50		W	Av Clm 2		DaRosa
			1:00-1:50	M W F		Av Clm 1		
			2:00-3:50	M W F		Av Lab		
109-4			Powerplant Testing					1st and 2nd quarters
	1	1	11:00-11:50	M	F	Av Clm 2		Shafer
			8:00-10:50	M	F	Av Lab		
126-3			Air Welding Theory					
	1	1	8:00-8:50		Th	Av Clm 2		Redmond
			4:00-4:50	Tu Th		Av Clm 2		
204-5			Aircraft Hydraulics					
	1	1	9:00-9:50	M	F	Av Clm 2		
			2:00-2:50	M		Av Clm 1		
			10:00-12:50	M	F	Av Lab		

Course No.	Hours	Descriptive Title	Time	Days	Place	Prerequisite
Fall	Winter	Spring				Instructor
<hr/>						
205-3	Pressurization, Air Conditioning Systems					
1	1	1	2:00-2:50	Tu Th	Av Clm 1	
			11:00-12:50	W	Av Lab	
206-4	Metal and Processing					
1	1	1	2:00-2:50	W	Av Clm 1	
			9:00-10:50	W	Av Lab	
208-2	Aircraft Fuel Systems					
1	1	1	11:00-11:50	Tu	Av Clm 1	
			8:00-9:50	Tu	Av Lab	
209-6	Weight and Balance and Inspection					
1	1	1	11:00-11:50	Th	Av Clm 1	
			2:00-2:50	Tu	Av Clm 2	
			8:00-9:50	Th	Av Lab	
			1:00-1:50	Th	Av Clm 1	
217-1	Radio Operation and Installation					
1	1	1	2:00-2:50	W	Av Clm 1	
			9:00-10:50	W	Av Lab	
220-3	Jet Transport Aircraft Systems					
1	1	1	11:00-11:50	Th	Av Clm 1	
			2:00-2:50	Tu	Av Clm 2	
			8:00-9:50	Th	Av Lab	
			1:00-1:50	Th	Av Clm 1	
230a-2	Private Pilot Ground School					
1	1	1	To be arranged		To be arranged	
230b-1	Private Pilot—Flight					
1	1	1	To be arranged		To be arranged	
231-3	Basic Flight					
1	1	1	To be arranged		To be arranged	
232-3	Intermediate Flight					
1	1	1	To be arranged		To be arranged	
233-3	Advanced Flight					
1	1	1	To be arranged		To be arranged	

# VTI M

101a-5	1	8:00-10:50	MTuWThF	L1-101	Foss
	2	2:00-4:50	MTuWThF	L1-101	Crookshank
101b-5	1	8:00-10:50	MTuWThF	L1-101	Foss
	2	2:00-4:50	MTuWThF	L1-101	Crookshank
101c-5	1	8:00-10:50	MTuWThF	L1-101	Foss
	2	2:00-4:50	MTuWThF	L1-101	Crookshank
125a-3	1	11:00-11:50	M W F	L1-105	Foss
	2	12:00-12:50	M W F	L1-105	Crookshank
125b-3	1	11:00-11:50	M W F	L1-105	Foss
	2	12:00-12:50	M W F	L1-105	Crookshank
125c-3	1	11:00-11:50	M W F	L1-105	Foss
	2	1:00-1:50	M W F	L1-105	Crookshank
175-3	1	7:30-10:00 pm	Tu Th	L1-105	Crookshank
176a-3	1	1:00-1:50	M W F	L1-105	
	2	10:00-10:50	M W F	L1-105	
176b-3	1	1:00-1:50	M W F	L1-105	
	2	10:00-10:50	M W F	L1-105	
201a-3	1	11:00-1:50	M W F	L1-101	Traylor
201b-3	1	11:00-1:50	M W F	L1-101	Traylor
201c-3	1	11:00-1:50	M W F	L1-101	Traylor
225a-3	1	9:00-9:50	M W F	L1-105	Traylor
225b-3	1	9:00-9:50	M W F	L1-105	Traylor
225c-3	1	9:00-9:50	M W F	L1-105	Traylor
275a-3	1	11:00-11:50	MTuWThF	M4-102 & 109	Dallman
275b-3	1	9:00-9:50	MTuWThF	M4-102	Dallman
	2	2:00-2:50	MTuWThF	M4-102	Dallman



## 208 VOCATIONAL-TECHNICAL INSTITUTE (VTI)

Course	No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
275b-3	<b>Metallurgy</b>				
3			3:00-3:50	MTuWThF	M4-102 Dallman
	1		9:00-9:50	MTuWThF	M4-102 Dallman
	2		4:00-4:50	MTuWThF	M4-102 Dallman
	3		3:00-3:50	MTuWThF	M4-102 Dallman
		1	9:00-9:50	MTuWThF	M4-102 Dallman
		2	4:00-4:50	MTuWThF	M4-102 Dallman
275c-3	<b>Metallurgy</b>				
	1	1	2:00-2:50	MTuWThF	M4-102 Dallman
		2	3:00-3:50	MTuWThF	M4-102 Dallman

## VTI N

101-3	<b>Art Analysis</b>				
1			8:00-8:50	M W F	L3-119 Swayne
125-10	<b>Techniques</b>				
1			9:00-11:50	M W F	L3-119 Hoffman
			8:00-11:50	Tu Th	
2			1:00-3:50	M W F	L3-119 Swayne
			1:00-4:50	Tu Th	
	1		1:00-4:50	MTuWThF	L3-119 Swayne
130-10	<b>Advanced Design and Production</b>				
	1		8:00-11:50	MTuWThF	L3-119 Hoffman
		1	1:00-4:50	MTuWThF	L3-119 Swayne
135-2	<b>Layout and Color Theory</b>				
1			1:00-1:50	Tu Th	L3-109 Hoffman
140-10	<b>Introductory Advertising and Story Illustration</b>				
					VTIN 130
	1		8:00-11:50	MTuWThF	L3-119 Hoffman
210a-8	<b>Advertising and Story Illustrations</b>				
	1		8:00-11:50	MTuWThF	L3-120 Ruyle
	2		1:00-4:50	MTuWThF	L3-120 Boza
210b-7	<b>Advertising Story Illustrations</b>				
	1		8:00-11:50	MTuWThF	L3-120 Ruyle
	2		1:00-4:50	MTuWThF	L3-120 Boza
210c-7	<b>Advertising and Story Illustrations</b>				
	1		8:00-11:50	MTuWThF	L3-120 Ruyle
	2		1:00-4:50	MTuWThF	L3-120 Boza
230a-7	<b>Technical Illustration</b>				
	1		8:00-11:50	Tu Th	L3-120 Ruyle
	2		1:00-4:50	Tu Th	L3-120 Boza
230b-7	<b>Technical Illustration</b>				
	1		8:00-11:50	Tu Th	L3-120 Ruyle
	2		1:00-4:50	Tu Th	L3-120 Boza
230c-6	<b>Technical Illustration</b>				
	1		8:00-11:50	Tu Th	L3-120 Ruyle
	2		1:00-4:50	Tu Th	L3-120 Boza

## VTI P

101-6	<b>Basic Nursing</b>				
1			8:00-11:50	M F	H5-210
			10:00-11:50	TuWTh	H5-210
			1:00-2:50	W	H5-210
			2:00-2:50	F	H5-210
102-7	<b>Practical Nursing—Role I</b>				
	1		8:00-11:50	M	H5-210
			1:00-3:50	MTuWThF	H5-210
			8:00-11:50	TuWThF	Hospital
103-6	<b>Clinical Theory and Nursing I</b>				
	1		TBA	MTuWThF	Hospital
			1:00-3:50	M W F	H9-201
103-12	<b>Clinical Theory and Nursing II</b>				
	1		TBA	MTuWThF	Hospital
			1:00-3:50	M W F	H9-201
131-4	<b>Nutrition for Practical Nursing</b>				
1			1:00-2:50	Tu Th	HEc
			1:00-1:50	F	H5-210
132-5	<b>Health</b>				
1			1:00-3:50	M	H5-210
			8:00-9:50	TuWTh	H5-210
			3:00-3:50	W F	H5-210

## VTI R

124-4	<b>Introduction to Retailing</b>				
1			9:00-9:50	MTuWTh	F1-106 Thompson
	1		9:00-9:50	MTuWTh	F1-112 Thompson

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite
Fall Winter Spring Time				Instructor
127a-3	Salesmanship			
1	1:00-1:50	M W F	F1-106	Thompson
127b-3				
1	9:00-9:50	M W F	F1-106	Elder
1	3:00-3:50	M W F	F1-106	Thompson
176-3	Product Analysis			
1	1:00-1:50	M W F	F1-112	Thompson
177a-5	Product Information Lab			
1	10:00-11:50	MTuWThF	F1-112	Thompson
177b-5	Product Information Lab			
1	2:00-3:50	MTuWThF	F1-112	Elder
1	10:00-11:50	MTuWThF	F1-112	Thompson
179-5	Retail Mathematics			
1	9:00-9:50	MTuWThF	F1-112	Burnett
201-8	Co-operative Work Experience			First 3 quarters
1	TBA			Elder
2	TBA			Burnett
205-4	Merchandising Principles			
1	10:00-10:50	MTuWTh	F1-106	Burnett
206-5	Records and Statistics			
1	10:00-10:50	MTuWThF	F1-111	Burnett
207a-4	Sales Promotion			
1	2:00-2:50	MTuWTh	F1-106	Elder
207b-2	Sales Promotion			
1	9:00-9:50	Tu Th	F1-106	Elder
1	3:00-3:50	Tu Th	F1-106	Elder
208b-2	Fashion			
1	1:00-1:50	Tu Th	F1-106	Burnett
224-4	Retail Store Organization and Management			
1	11:00-11:50	MTuWTh	F1-106	Elder
227-3	Personnel Management			
1	1:00-1:50	M W F	F1-106	Burnett

# VTI S

101a-3	Typewriting I			
1	10:00-10:50	MTuWThF	F1-121	Norman
T2	12:00-12:50	MTuWThF	F1-121	Norman
101b-3	Typewriting II			VTIS 101a
1	11:00-11:50	MTuWThF	F1-121	Norman
2	12:00-12:50	MTuWThF	F1-121	Norman
3	1:00-1:50	MTuWThF	F1-121	Reed
T4	2:00-2:50	MTuWThF	F1-121	Norman
T5	3:00-3:50	MTuWThF	TBA	Reed
101c-3	Typewriting III			VTIS 101b
1	10:00-10:50	MTuWThF	F1-121	Reed
2	11:00-11:50	MTuWThF	F1-121	Reed
3	12:00-12:50	MTuWThF	F1-121	Norman
T4	3:00-3:50	MTuWThF	F1-121	Reed
104a-6	Shorthand I			
1	8:00-9:50	MTuWThF	F1-110	Norman
T2	10:00-11:50	MTuWThF	F1-110	
104b-6	Shorthand II			VTIS 104a
1	8:00-8:50	MTuWThF	F1-108	Norman
	9:00-9:50	MTuWThF	F1-107	Norman
2	10:00-10:50	MTuWThF	F1-106	Reed
	11:00-11:50	MTuWThF	F1-107	Reed
3	1:00-1:50	MTuWThF	F1-108	Garrison
	2:00-2:50	MTuWThF	F1-107	Garrison
T4	3:00-4:50	MTuWThF	TBA	
T5	1:00-2:50	MTuWThF	F1-102	
104c-6	Shorthand III			VTIS 104b
1	8:00-9:50	MTuWThF	F1-102	Norman
2	1:00-2:50	MTuWThF	F1-102	Reed
3	3:00-4:50	MTuWThF	F1-107	Garrison
T4	6:00-10:30	M W	F1-121	McInturff
107-3	Filing and Duplicating			VTIS 101a
1	8:00-8:50	MTuWThF	F1-121	Garrison
	8:00-8:50	MTuWThF	F1-121	
2	9:00-9:50	MTuWThF	F1-121	
205a-3	Typewriting IV			VTIS 101c
1	8:00-8:50	MTuWThF	F1-107	Miriani
2	9:00-9:50	MTuWThF	F1-107	Garrison
3	10:00-10:50	MTuWThF	F1-107	Reed
4	11:00-11:50	MTuWThF	F1-107	McInturff
T5	12:00-12:50	MTuWThF	F1-107	
205b-3	Typewriting V			VTIS 205a
1	8:00-8:50	MTuWThF	F1-107	Garrison

## 210 VOCATIONAL-TECHNICAL INSTITUTE (VTI)

Course No.—	Hours	Descriptive Title	Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time			
205b-3	Typewriting V					VTIS 205a
	1	6:00-8:30	Tu Th	F1-102	Garrison	
	2	9:00-9:50	MTuWThF	F1-121	Miriani	
	2	10:00-10:50	MTuWThF	F1-107	Miriani	
	3	10:00-10:50	MTuWThF	F1-102	McInturff	
	4	6:00-8:30	Tu Th	F1-107	Garrison	
	T5	12:00-12:50	MTuWThF	F1-107		
209a-6	Shorthand IV					VTIS 104c
	1	1:00-2:50	MTuWThF	F1-102	Garrison	
	2	2:00-3:50	MTuWThF	F1-107	Miriani	
	3	11:00-12:50	MTuWThF	F1-102	Reed	
	T4	1:00-2:50	MTuWThF	F1-121		
209b-6	Shorthand V					VTIS 209a
	1	1:00-2:50	MTuWThF	F1-102	Garrison	
	2	1:00-2:50	MTuWThF	F1-121	Miriani	
	3	11:00-12:50	MTuWThF	F1-102		
	T4	6:00-10:30	M W	F1-109	Norman	
223-5	Secretarial Office Procedures					VTIS 104c
	1	10:00-10:50	MTuWThF	F1-109	Garrison	
	2	1:00-1:50	MTuWThF	F1-108	McInturff	
	T3	2:00-2:50	MTuWThF	F1-108		
224-6	Legal Shorthand					VTIS 209a
	1	11:00-12:50	MTuWThF	F1-102	Reed	
	2	3:00-4:50	MTuWThF	F1-121	Miriani	
	3	6:00-8:30	MTuWTh	F1-102	Reed	
	T4	6:00-8:30	Tu Th	TBA	Miriani	
225a-6	Medical Shorthand I					VTIS 209a
	1	8:00-9:50	MTuWThF	F1-102	Tooley	
	T2	2	3:00-4:50	MTuWThF	F1-102	Tooley
	T3	6:00-8:30	Tu Th	TBA		
225b-6	Medical Shorthand II					
	1	11:00-12:50	MTuWThF	F1-107	Tooley	
	2	8:00-9:50	MTuWThF	F1-107	Tooley	
	T3	1:00-2:50	MTuWThF	TBA		

## VTI T

101a-7	AC-DC Laboratory				
	1	8:00-10:50	MTuWThF	M3-109	Schultz
	2	2:00-4:50	MTuWThF	M3-109	Becker
	1	1:00-3:50	MTuWThF	M3-109	Becker
101b-7	Vacuum Tube and Transistor Laboratory				VTIT 101a
	1	8:00-10:50	MTuWThF	M3-109	Becker
	2	8:00-10:50	MTuWThF	M3-112	
	1	9:00-11:50	MTuWThF	M3-109	
101c-7	Transmitter and Receiver Laboratory				VTIT 101b
	1	8:00-10:50	MTuWThF	M3-107	
	2	1:00-3:50	MTuWThF	M3-107	
125a-5	AC-DC Theory				
	1	2:00-2:50	MTuWThF	M3-110	Schultz
	2	12:00-12:50	MTuWThF	M3-110	Becker
	1	11:00-11:50	MTuWThF	M3-110	
125b-5	Vacuum Tube and Transistor Theory				VTIT 125a
	1	12:00-12:50	MTuWThF	M3-110	
	2	3:00-3:50	MTuWThF	M3-110	
	1	8:00-8:50	MTuWThF	M3-110	
125c-5	Transmitter and Receiver—Theory				VTIT 125b
	1	2:00-2:50	MTuWThF	M3-110	
	2	12:00-12:50	MTuWThF	M3-110	
201a-5	Transistor Laboratory				VTIT 125c
	1	9:00-10:50	MTuWThF	M3-112	Caldwell
	2	2:00-3:50	MTuWThF	M3-112	Caldwell
201b-5	Pulse and Microwave Laboratory				VTIT 201a
	1	10:00-11:50	MTuWThF	M3-112	
	2	2:00-3:50	MTuWThF	M3-112	
201c-5	Service Problems Laboratory				VTIT 201b
	1	9:00-10:50	MTuWThF	M3-112	
	2	2:00-3:50	MTuWThF	M3-112	
225a-5	Transistor and Vacuum Tube Theory				VTIT 101c
	1	11:00-11:50	MTuWThF	M3-110	Caldwell
	2	12:00-12:50	MTuWThF	M3-110	Caldwell
225b-5	Pulse and Microwave				VTIT 225a
	1	9:00-9:50	MTuWThF	M3-110	
	2	9:00-9:50	MTuWThF	M3-110	
225c-5	Service Principles Theory				VTIT 225b
	1	11:00-11:50	MTuWThF	M3-110	
	2	11:00-11:50	MTuWThF	M3-110	



Course No.	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
228-3		Federal Communications Commission License			VTIT 125c
1		1:00-1:50	M W F	M3-110	Caldwell
229-3		Color Television			VTIT 225b
	1	1:00-1:50	M W F	M3-110	
232-3		Industrial Circuits			VTIT 225a
1		1:00-1:50	M W F	M3-110	

## VTI U

101a-3		The Funeral: History			
1		8:00-8:50	M W F	L3-109	Thorsell
101b-3		The Funeral: Customs			
1		8:00-8:50	M W F	L3-109	Thorsell
110-4		Embalming Chemistry			VTIG 115
1		1:00-1:50	M W F	L3-109	
		2:00-2:50	M W F	L3-106	Thorsell
202-3		Restorative Art			
1		2:00-2:50	M W F	L3-109	
		2:00-4:50	Tu Th	L3-106	Hertz
2		2:00-2:50	M W F	L3-109	
		2:00-4:50	Tu Th	L3-106	Hertz
203-3		Introduction to Embalming			Phsl 300
					VTIU 110
1		3:00-3:50	M W F	L3-109	Thorsell
205a-3		Pathology			Phsl 300
					GSA 301
1		4:00-4:50	M W F	L3-109	Hertz
205b-3		Pathology			VTIU 205a
1		4:00-4:50	M W F	L3-109	Hertz
208-2		Public Health Laws and Regulations			
	1	1:00-1:50	Tu Th	L3-109	Hertz
210-3		Funeral Service Psychology			Psych 305 and 307
	1	2:00-2:50	M W F	L3-109	Thorsell
225a-5		Embalming Theory and Practice			VTIU 203
1		3:00-3:50	M W F	L3-109	
		2:00-4:50	Tu Th	L3-106	Hertz
225b-5		Embalming Theory and Practice			VTIU 225a
	1	3:00-3:50	M W F	L3-109	
		2:00-4:50	M W F	L3-106	Hertz
250-5		Mortuary Management			VTIU 101b
	1	1:00-1:50	M W F	L3-106	Thorsell
275-10		Funeral Service Internship			VTIU 250, 225a
					concurrent registration
280-2	Summer	Arranged			VTIU 275
	Summer	Arranged			

## VTI W

101a-5		Welding Laboratory—Oxy and Acetylene			
1	1	1 8:00-10:50	MTuWThF	M4-107	Williams
101b-5		Welding Lab—Arc			
1	1	1 8:00-10:50	MTuWThF	M4-108	Tregoning
101c-5		Welding Lab—Arc			VTIW 101b
1	1	1 8:00-10:50	MTuWThF	M4-108	Tregoning
125a-5		Welding Theory—Oxy and Acetylene			
1	1	1 1:00-1:50	MTuWThF	M4-108	Williams
125b-5		Welding Theory—Arc			
1	1	1 1:00-1:50	MTuWThF	M4-102	Tregoning
125c-5		Welding Theory			
1	1	1 2:00-2:50	MTuWThF	M4-108	Tregoning
175-3		Oxy and Acetylene and Electric Arc Welding			
1	1	1 11:00-11:50	MTuWThF	M4-108	Williams
2	2	2 2:00-3:50	M W F	Av Lab	

## VTI X

201-2		Job Orientation—Automotive			
1		1:00-1:50	Tu Th	L1-105	Jones
201-2		Job Orientation—Retailing			
2		2:00-2:50	Tu Th	F1-106	
201-2		Job Orientation—Automotive			
1		1:00-1:50	Tu Th	L1-105	Jones
201-2		Job Orientation—Retailing			
2		1:00-1:50	Tu Th	F1-106	
201-2		Job Orientation—Business			
3		10:00-10:50	M W	F1-121	Johnston

## 212 VOCATIONAL-TECHNICAL INSTITUTE (VTI)

Course No.—Hours		Descriptive Title	Days		Place	Prerequisite Instructor
Fall	Winter	Spring	Time			
201-2	Job Orientation—Business					
	4	3:00-3:50	M	W	F1-111	Johnston
201-2	Job Orientation—Automotive					
	1	1:00-1:50	Tu	Th	L1-105	Jones
201-2	Job Orientation—Business					
	2	10:00-10:50	M	W	F1-110	Johnston
201-2	Job Orientation—Business					
	3	3:00-3:50	M	W	F1-111	Johnston
201-2	Job Orientation—Woodworking					
	4	8:00-8:50	Tu	Th	L4-106	Rice

## VTI Y

101a-6	Dental Prosthetics Laboratory						
1	1	2:00-4:50	M	W	F	F3-127	Leebens
		1:00-4:50	Tu	Th			
101b-6	Dental Prosthetics Laboratory						
	1	1:00-3:50	M	W	F	F3-128	Pennock
		1:00-4:50	Tu	Th			
	1	2:00-4:50	M	W	F	F3-127	Leebens
		1:00-4:50	Tu	Th			
101c-6	Dental Prosthetics Laboratory						
	1	1:00-3:50	M	W	F	F3-128	Pennock
		1:00-4:50	Tu	Th			
113-3	Science of Dental Materials						
	1	8:00-8:50	M	W	F	F1-106	Harbison
	1	8:00-8:50	M	W	F	F1-106	Harbison
125a-3	Dental Prosthetics Theory						
1	1	1:00-1:50	M	W	F	F1-110	Joy
125b-3	Dental Prosthetics Theory						
	1	4:00-4:50	M	W	F	F1-110	Leebens
	1	1:00-1:50	M	W	F	F1-110	Joy
125c-3	Dental Prosthetics Theory						
	1	4:00-4:50	M	W	F	F1-110	Pennock
130-2	Orientation to Dental Hygiene						
1		8:00-8:50	M	W		F1-110	Rinehart
132a-4	Head and Neck Anatomy						
1		8:00-9:50			F		
		9:00-9:50	MTuW			F1-110	Vandever
132b-4	Head and Neck Anatomy						VTIY 132a
	1	10:00-11:50	M	W	F	F3-143	Vandever
		9:00-9:50	M	W	F	F1-110	
	2	2:00-3:50	M	W	F	F3-143	Vandever
		9:00-9:50	M	W	F	F1-110	
135a-4	Oral Basic Science						
1		10:00-10:50	MTuW	F		F1-110	Bushee
	1	2:00-3:50	M	W	F	F3-144	Bushee
	2	10:00-11:50	M	W	F	F3-144	Bushee
137a-4	Pre-Clinical Dental Hygiene						
	1	9:00-11:50	Tu	Th		F3-143	
	2	1:00-3:50	Tu	Th		F3-143	
137b-4	Pre-Clinical Dental						
	1	9:00-11:50	M	W		F3-143	
	2	9:00-11:50	Tu		F	F3-143	
139-3	Dental Nutrition						
	1	TBA					Osborn
140-2	Pharmacology						
	1	10:00-11:50		Th		F1-110	Vandever
201a-6	Crown and Bridgework Laboratory						
1		9:00-11:50	M	W	F	F3-127	Christy
		8:00-10:50	Tu	Th			
2		8:00-10:50	M	W	F	F3-128	Bykowski
		8:00-11:50	Tu	Th			
201b-6	Crown and Bridgework						
	1	9:00-11:50	M	W	F	F3-127	Christy
		8:00-11:50	Tu	Th			
	2	8:00-10:50	M	W	F	F3-128	Bykowski
		8:00-11:50	Tu	Th			
201c-6	Crown and Bridgework						
	1	9:00-11:50	M	W	F	F3-127	Christy
		8:00-11:50	Tu	Th			
	2	8:00-10:50	M	W	F	F3-128	Bykowski
		8:00-11:50	Tu	Th			
210a-5	Clinical Dental Hygiene						
1		9:00-11:50	MTuWThF			F3-132	
		1:00-1:50		Th		F1-110	
2		1:00-3:50	MTuW	F		F3-132	
		1:00-1:50		Th		F1-110	

Course No.—	Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Fall	Winter	Spring	Time		
210b-5	Clinical Dental Hygiene				
1		1:00-3:50	MTuW F	F3-132	
		1:00-1:50	Th	F1-110	
2		9:00-11:50	MTuW F	F3-132	
		1:00-1:50	Th	F1-110	
210c-5	Clinical Dental Hygiene				
1		9:00-11:50	MTuW F	F3-132	
		1:00-1:50	Th	F1-110	
2		1:00-3:50	MTuW F	F3-132	
		1:00-1:50	Th	F1-110	
213a-3	Dental Assisting				
1		9:00-11:50	Th	F3-144	Vandever
2		2:00-4:50	Th	F3-144	Vandever
213b-3	Dental Assisting				
1		9:00-11:50	Th	F3-144	Vandever
2		2:00-4:50	Th	F3-144	Vandever
216a-2	Dental Administration and Practice				
1		12:00-12:50	Tu F	F1-110	
216b-2	Dental Administration and Practice				
1		2:00-3:50	Th	F1-110	Bushee
217-2	Dental Health Education				
1		12:00-12:50	W F	F1-110	Rinehart
218b-2	Dental Roentgenology				
1		2:00-3:50	Th	F1-110	Bushee
2		9:00-10:50	Th	F1-110	Bushee
218c-2	Dental Roentgenology				
1		2:00-3:50	Th	F1-110	Bushee
2		9:00-10:50	Th	F1-110	Bushee
220-3	Dental Public Health				
1		9:00-11:50	Th	F3-143	Rinehart
225a-3	Crown and Bridge Theory				
1		8:00-8:50	M W F	F1-109	Christy
2		11:00-11:50	M W F	F1-110	Bykowski
225b-3	Crown and Bridge Theory				
1		8:00-8:50	M W F	F1-110	Christy
2		11:00-11:50	M W F	F1-110	Bykowski
225c-3	Crown and Bridge Theory				
1		8:00-8:50	M W F	F1-110	Christy
2		11:00-11:50	M W F	F1-110	Bykowski



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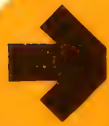
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# Guidelines

*for prospective students*



OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

TO FORWARD IDEAS AND IDEALS

*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*

## GUIDELINES FOR PROSPECTIVE STUDENTS





*Seattle*  
2160 miles

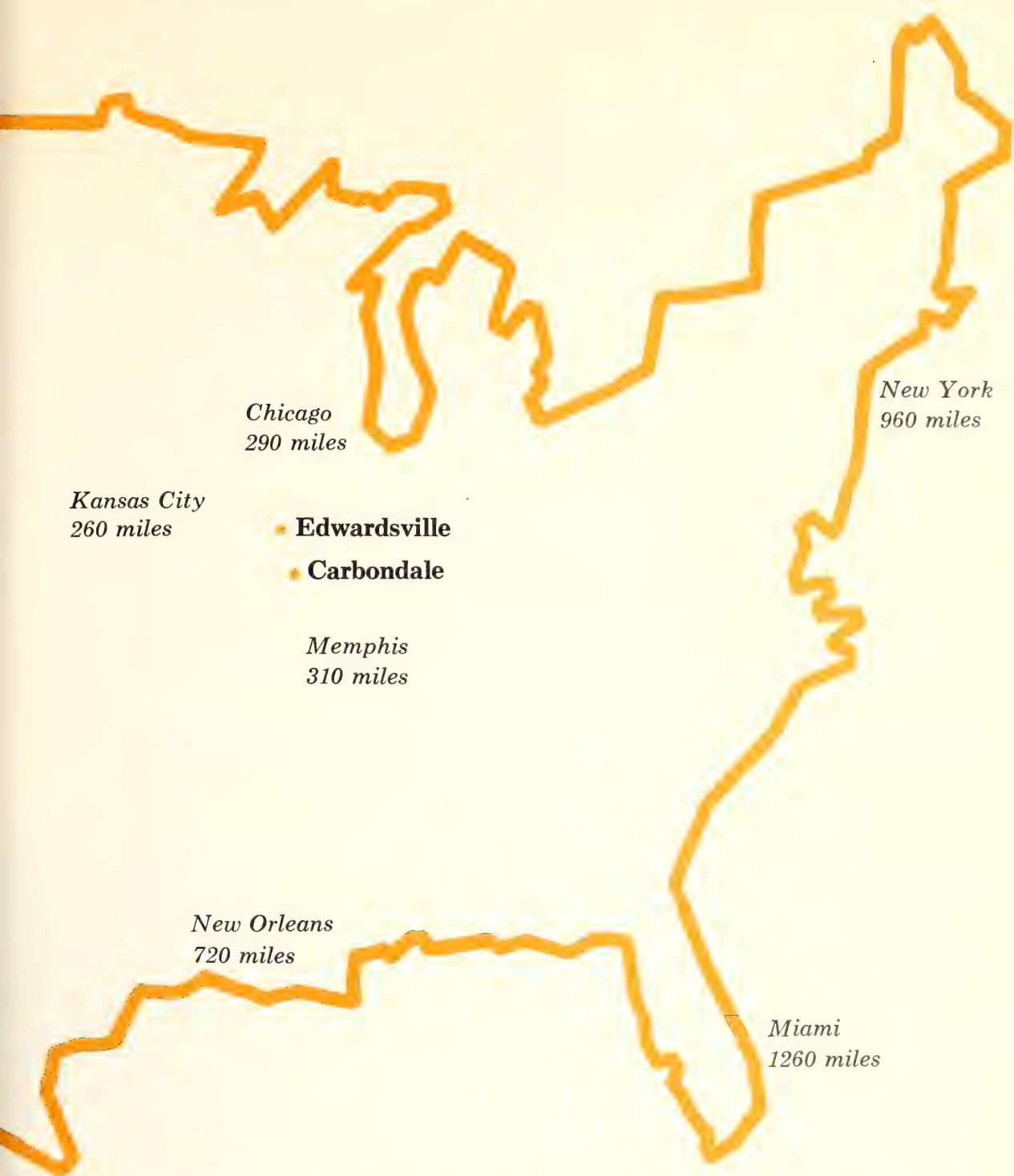
*San Francisco*  
2140 miles



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*Chicago*  
290 miles

*New York*  
960 miles

*Kansas City*  
260 miles

• **Edwardsville**

• **Carbondale**

*Memphis*  
310 miles

*New Orleans*  
720 miles

*Miami*  
1260 miles

# Guidelines

*for prospective students*

**Southern Illinois University /Carbondale-Edwardsville**



## *This Issue . . . . .*

of the *Southern Illinois University Bulletin* covers in detail questions concerning the University and applies to both the Carbondale Campus and the Edwardsville Campus. It supersedes Volume 8, Number 5, Guidelines for Prospective Students.

THE FOLLOWING issues of the *Southern Illinois University Bulletin* may be obtained free from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

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# Contents

<i>Board of Trustees and Officers of Instruction</i> .....	vii
<i>To the Prospective Student</i> .....	viii

Southern Illinois University		Proficiency Examinations . . . . .	22
History . . . . .	1	High School Advanced Placement	
Location . . . . .	2	Program . . . . .	24
Carbondale Campus . . . . .	2	Advanced Standing in General	
Edwardsville Campus . . . . .	4	Studies . . . . .	25
Complexity . . . . .	5	Facilities for Instruction . . . . .	26
Fields of Study . . . . .	5	Material Resources . . . . .	26
Bachelor's Degree . . . . .	6	Faculty Resources . . . . .	26
Preprofessional . . . . .	6	What Will Your Education Cost? . . . . .	27
Associate Degree . . . . .	6	Fees and Other Expenses . . . . .	28
Certificate . . . . .	7	Payment and Refund of Fees . . . . .	31
Admission Requirements and Procedure . . . . .	7	Carbondale Campus . . . . .	32
Applications and Information . . . . .	7	Estimated Expenses for Three	
General Studies . . . . .	7	Quarters . . . . .	32
Admission of Freshmen . . . . .	10	Edwardsville Campus . . . . .	32
Admission of Transfer Students . . . . .	12	Housing . . . . .	32
Admission of Foreign Students . . . . .	13	University Housing . . . . .	32
Admission of Former Students . . . . .	13	Off-Campus Housing . . . . .	33
Admission of Unclassified Students . . . . .	14	Financial Considerations . . . . .	34
Automobiles . . . . .	15	Student Services . . . . .	34
Advisement . . . . .	16	Financial Assistance . . . . .	35
Registration . . . . .	16	Student Work Program . . . . .	36
Social Security Identification number . . . . .	17	The Life of the Student . . . . .	36
Required Tests . . . . .	17	Extracurricular Activities . . . . .	36
Academic Load . . . . .	18	Clubs . . . . .	37
Grading System . . . . .	18	Honorary and Professional	
Scholastic Probation . . . . .	19	Organizations . . . . .	37
Honors Day and Graduation Honors . . . . .	21	Special Interest Groups . . . . .	37
Air Force Reserve Officers Training		University Center Buildings . . . . .	37
Corps (AF ROTC) . . . . .	21	Glossary . . . . .	38
Special Programs For Credit . . . . .	22	Translation of Jargon at Beginning	
Plan A . . . . .	22	of Glossary . . . . .	42
Individual Honors Work . . . . .	22	Picture Captions . . . . .	43



# Board of Trustees and Officers of Instruction

## BOARD OF TRUSTEES

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## To the Prospective Student....

"GOING AWAY TO COLLEGE" is one of the most exciting expressions in the American language. And the actual experience is just as exciting whether you attend Southern Illinois University or one of the more than 2,100 other colleges and universities in America. "Going away to college" is year by year growing more applicable to millions of Americans because today a college education is not only the logical but the necessary extension of your high school education. The extension is necessary in order that you acquire more knowledge and skills which will help you contribute to and cope with an increasingly complex and technological society.

But "going away to college" can be a bewildering experience because you may not be sure what questions to ask, fearing to expose your innocence in such matters. It was for this very reason *Guidelines for the Prospective Student* was designed. In it we hope to anticipate your questions and to supply you with information which we think you should know in order to make an intelligent choice of schools. There are very few larger decisions you will make in life than choosing a college, larger in the sense of giving your life direction, purpose, substance, and pleasure. Conceivably your choice of college could be the largest single decision you will make in your lifetime.

If you choose to attend Southern Illinois University, every effort will be made to stimulate you intellectually, to help you develop an appetite for ideas, to present you with new ideas that will cause you to re-examine your own, and to inculcate in you a proper respect for learning. Life will become a blend of lectures and laboratories, a series of reading bouts with books and debating sessions with friends, a period of discoveries, some with shattering implications, some with soothing affirmations.

But learning is not confined to the classroom. It takes place wherever you go, to the "Muny" Opera in St. Louis, a sporting event, an art exhibit, a concert, a play, a modern dance performance, a jazz-and-poetry concert, yes, even a hootenanny. Southern Illinois University will provide opportunities for you to experience such events. You will be urged to take advantage of as many of them as you reasonably can.

Whatever your choice of school, we wish you well with your classes and extracurricular activities and know you will find "going away to college" both exciting and rewarding.



# Southern Illinois University

CARBONDALE/EDWARDSVILLE

S O U T H E R N I L L I N O I S U N I V E R S I T Y  
is a multi-purpose and diversified university that, since its establishment in 1869, has sought to meet the educational needs of the times for the people which it serves as a public institution. It is fully accredited by the North Central Association of Colleges and Secondary Schools.

## *History*

Though the student population has increased manifold from its beginnings, the formation of schools, colleges, divisions, and departments within the University enables the institution to concentrate on the special interests of its individual students. The University in total size now ranks twentieth in the nation. It offers facilities and faculty to give general and professional training to you ranging from a two-year associate degree program to the doctoral degree level.

Because of the growing demand for educational opportunities in the Madison-St. Clair counties area, the University established the Alton Residence Center and the East St. Louis Residence

Center in 1957, the former on the campus of what used to be Shurtleff College.

During the year 1958-59, communities in Madison and St. Clair counties launched a drive that helped acquire a large central campus site on the outskirts of Edwardsville, Illinois, approximately twenty miles east of St. Louis, Missouri. From what was once farm land is now rising a complex of buildings which constitute the Edwardsville campus.

Thus you should note that *Southern Illinois University operates in two geographically separated but functionally united areas, which have been officially named Carbondale Campus and Edwardsville Campus.*

#### *Location*

IN ALL, the University has educational programs in operation at Carbondale; at Southern Acres (the Vocational-Technical Institute), ten miles east of Carbondale; at Little Grassy Lake, ten miles southeast of Carbondale, where recreation and outdoor education and other classes and workshops are held; at East St. Louis; at Alton; and at Edwardsville.

The Edwardsville Campus with its proximity to St. Louis permits ready access to such metropolitan institutions as the legitimate theater, opera, major league sports, art galleries, symphonies, first-run motion pictures, and a considerable range in variety of restaurants and entertainment.

The Carbondale Campus being only a hundred miles distant still leaves these institutions accessible by car, bus, train, and plane.

Conversely, the Carbondale Campus permits ready access to such natural institutions as lake swimming, boating, hunting, fishing, picnicking, and even spelunking. In addition, the University and its various organizations bring to the campus symphony orchestras, classical and popular musicians, lecturers, acting troupes, comedians, artists, Hollywood personalities, playwrights, foreign correspondents, poets, and folk singers.

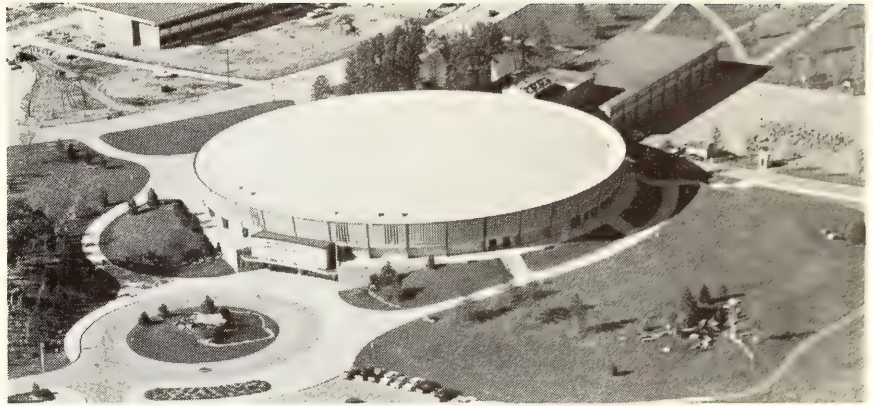
#### CARBONDALE CAMPUS

THE CITY OF Carbondale (population 18,000) is in southern Illinois, 100 miles southeast of St. Louis, Missouri, in Jackson County, whose western border is the eastern bank of the Mississippi River. The region immediately surrounding Carbondale is noted for its large peach and apple orchards. Within ten miles of the





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campus there are two state parks and four lakes. The largest of the lakes is Crab Orchard Lake, four miles east of Carbondale. It has a shoreline of 125 miles and is frequented by students for swimming, water skiing, motor boating, sail boating, fishing, picnicking, camping, and hunting. Immediately south of Carbondale begins some of the ruggedest, most picturesque terrain in the state of Illinois.

Sixty miles north of Carbondale is the population center of the United States, while sixty miles south is the colorful and historic confluence of the Ohio and Mississippi rivers, the two forming the border of the southern tip of Little Egypt, the fourteen southernmost counties in Illinois.

The campus is undergoing extensive expansion. In addition to approximately seventy large permanent buildings and several hundred small temporary buildings, the following have recently been completed or are in varying stages of completion: the arena (seating capacity 11,000 under a 300-ft. diameter dome), general classroom buildings, communications building, School of Technology complex of buildings, and the University Park residence halls group (which consists of nine four-story residences, three seventeen-story residence halls, and complete dining facilities in adjacent dining commons), a physical science building, and a forestry research building.





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Southern Acres contains the educational facilities of the Vocational-Technical Institute, some apartments for married students, and some residence halls for single students.

The Little Grassy Lake facility consists of nine square miles of land adjacent to Little Grassy Lake and approximately seventy permanent structures. Although the programs conducted at Little Grassy are primarily devoted to instruction and training in recreation and outdoor education, many units of the University utilize its facilities in various ways.

#### EDWARDSVILLE CAMPUS

THE CENTRAL CAMPUS is comprised of 2,600 acres of rolling farm land and wooded valleys along the bluffs flanking the Mississippi River southwest of Edwardsville, Illinois.

The master plan for the Edwardsville site provides facilities for a student body of 18,000. Current enrollment exceeds 7,000.

Present buildings finished or under construction in the first phase are the library, general classroom building, communications building, science building, administration building, and a university center building.

Initially parking space for 3,000 cars will be provided and ultimately space for 12,000 cars.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton Center. Eight permanent buildings form the nucleus of this 40-acre campus. Nine additional buildings have been prepared on a temporary basis to meet the needs of current expansion.



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The East St. Louis Center is located on Ohio Street at Ninth and Tenth. Laboratories, classrooms, libraries, and other facilities of a former senior high school have been redesigned and equipped to provide for an undergraduate program at this campus. Several residences have been leased for faculty offices.



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IF YOU SHOULD become a student at Southern Illinois University, you may be bewildered at first by the complexity of the academic, the administrative, and even the extracurricular organization of the University. Naturally it will take you some time to familiarize yourself with the schools, colleges, divisions, institutes, fields of study, services, libraries, and course offerings. Even some of the terminology will be unfamiliar to you.

*Complexity*

However, you can readily acquire a basic vocabulary by making yourself familiar with the terms listed in the Glossary. This familiarity will prove helpful no matter what college or university you choose to attend.

### *FIELDS OF STUDY*

BELOW ARE the fields of study in which Southern Illinois University grants bachelor's degrees to Carbondale Campus students (indicated by the letter *C* following the field) or Edwardsville



Campus students (indicated by *E*) or both (*no letter*). A bachelor's degree normally requires four years of study.

*Bachelor's Degree*

Accounting		Management	
Agricultural Education	C	Marketing	
Agriculture, General	C	Mathematics	
Agricultural Industries	C	Microbiology	C
American Studies	E	Music	
Animal Industries	C	Nursing	E
Anthropology	C	Philosophy	
Applied Science	C	Photography	C
Art		Physical Education for Men	
Biological Sciences		Physical Education for Women	
Botany		Physics	
Business Teacher Education		Physiology	C
Chemistry		Plant Industries	C
Community Development	C	Printing Management	C
Design	C	Psychology	
Economics		Public Administration and Planning	E
Elementary Education		Radio-Television	C
Engineering Technology	C	Recreation and Outdoor Education	C
English		Secretarial Studies	
Foreign Languages		Small Business Management	C
Forestry	C	Social Studies	C
General Science	C	Sociology	
Geography		Special Education (Mentally Retarded)	
Geology	C	Special Education (Physically Handicapped)	C
Government		Speech	
Health Education	C	Speech Pathology and Audiology	C
Health Science	C	Theater	
History		Zoology	
Home Economics	C		
Industrial Arts	C		
Industrial Technology	C		
Inter-American Studies	C		
Journalism	C		
Language Arts	C		

*Preprofessional*

BELOW ARE preprofessional fields in which you may take one year or more of work at Southern Illinois University and then transfer to another university for professional training.

Chiropody	Occupational Therapy
Dentistry	Optometry
Engineering	Pharmacy
Law	Physical Therapy
Medical Illustration	Public Health
Medical Technology	Theology
Medicine	Veterinary Science

*Associate Degree*

AT THE Vocational-Technical Institute, the following options in the two-year associate degree program are available:

BUSINESS

Accounting	Secretarial (Executive, Legal,
Co-operative Retailing	Medical)
Electronic Data Processing	

TECHNOLOGY

Architectural Drafting and	Electronic Data Processing
Design Technology	Electronics Technology
Automotive Technology	Machine Drafting and Design
Aviation Technology	Technology
Building Construction Technology	Machine Tool Technology
Commercial Art	Mortuary Science
Dental Hygiene	Printing Technology
Dental Laboratory Technology	Woodworking Technology

On the Edwardsville Campus the following options in the associate degree program are available:

BUSINESS

Accounting	Secretarial (General, Legal,
Management	Medical)

AT THE Vocational-Technical Institute, the following options leading to one-year certificates are available: bookkeeping-clerical, calculating machines, stenography, cosmetology, practical nursing, and welding.

*Certificate*

ADMISSION REQUIREMENTS AND  
PROCEDURE

INQUIRIES concerning admission to Southern Illinois University should be directed to the Admissions Office at Carbondale or Edwardsville, depending on which campus you plan to attend. Applications for admission are accepted any time during the calendar year.

*Applications and Information*

Before making formal application for admission you will probably want to know more about the University. Your first step then is to write *both* for application forms and for additional information in your field of interest.

THE PROBLEM OF what constitutes a good general education has been debated for centuries. It still continues. However, in its effort to provide you with what it considers a good general education, Southern Illinois University instituted in the fall of 1962 a program known as General Studies. This program is required of all students who are bachelor's degree candidates.

*General Studies*



Therefore, you should understand: (1) why the University instituted the General Studies program, (2) what the program consists of, (3) how it will affect you as a student, and (4) how you can achieve advanced standing in General Studies both before and after enrolling in the University.

Prior to the institution of General Studies, the student was allowed to sample many different subjects without regard to their natural relationships or the time sequence in which they were taken. Too often the result was that the student wound up with a considerable number of unrelated blocks of knowledge that simply floated about in time and space.

Today, however, General Studies is structured to achieve a better understanding of the whole of knowledge by preserving unity in time and space relationships, by providing a broad base of knowledge from which you can choose and upon which you can build your life's work, and by enabling you to become a citizen capable of advancing not only technical but also social and cultural life.

Of special significance are these aspects of the General Studies

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program: (1) it provides you with an integrated body of knowledge, (2) within this body of knowledge you will have opportunity to choose your area of concentration if you have not already done so, and (3) if you are already certain (NOTE: *surveys show that well over half of all college students change their areas of specialization at least once in their college careers*) as to what you want to specialize in, the very nature of General Studies will help counterbalance this specialization. Today specialists themselves realize that rigid concentration within any field of study may not only deprive you of broader understanding so important for participation in life as enlightened citizens and parents but *can also even result in reduced creativity in the very area of specialization.*

General Studies consists of five areas (often referred to as GSA, GSB, GSC, GSD, & GSE), which are listed below with the number of hours required:

Man's Physical Environment and Biological Inheritance ....	22
Man's Social Inheritance and Social Responsibilities .....	22
Man's Insights and Appreciations .....	22
Organization and Communication of Ideas .....	18
Health and Physical Development .....	6

It should be clearly understood that bachelor's degree candidates must take two years of General Studies, or approximately one-half the time required for graduation. This work is spread over at least three years, however, so that a student with a special interest may from the first test out this interest by taking a number of special courses.



Consequently, a student entering the University as a freshman or sophomore is enrolled in General Studies (except one entering the Vocational-Technical Institute). You may or may not indicate a tentative choice of your primary field of interest, but you may not formally apply for admission into a specialized field until after you have completed a minimum of 64 quarter hours.

However, *advanced standing* in specific General Studies courses may be granted to students who have had sufficient high school class work in these subjects and who score high enough on required entrance examinations. Also you are entitled to *waive* third-level General Studies courses in the area which is to be your area of concentration. And still other requirements may be met through *proficiency examinations* resulting in exemption from portions of the General Studies requirements.

For information relevant to General Studies, write to the General Studies Office on the appropriate campus. (See GENERAL STUDIES in the Glossary)



13



14

### *Admission of Freshmen*

TO BE ELIGIBLE for admission, you either must be a graduate of a recognized high school (a graduate of a non-recognized high school may be admitted by the Director of Admissions by examination), or must have passed the General Education Development Test. A person seeking admission through the latter procedure will be considered only after his high school class would have been graduated.



All prospective freshmen must submit scores on the American College Testing Program (A.C.T.). A student has not completed his admission to the University until he has completed the A.C.T. and the results are known. The A.C.T. and other criteria are used in connection with such functions as course placement, awarding of scholarships, selection of honor students, and counseling.

An in-state high school graduate who ranks in the upper half of his graduating class or who achieves high scores on the A.C.T. is eligible for admission for the fall quarter. A student who is not eligible for the fall quarter because of low test scores and class rank is eligible for the winter quarter if he ranks in the upper two-thirds of his graduating class or if he has achieved high scores on the A.C.T. All Illinois high school graduates are eligible for admission to the summer quarter or the spring quarter. A student who ranks in the lowest one-third of his graduating class and has low test scores will be admitted on probation.

A graduate of an out-of-state high school who ranks in the upper forty per cent of his graduating class will be permitted to enter any quarter, while one in the lower sixty per cent will be permitted to enter, on academic probation, for the summer quarter provided that he shows high scores on the A.C.T.

An in-state or out-of-state lower-ranking student admissible only on probation who elects to enter during the summer quarter can qualify for fall quarter attendance by carrying at least 8 hours and completing them with at least a C average.

One who ranks in the upper quarter of his graduating class will be considered for admission after completion of the sixth semester. Others will be considered after completion of the seventh semester. Any upper-quarter student who seeks admission after the sixth semester must furnish University entrance examination scores prior to his first registration. All other students



16



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must furnish examination scores prior to being admitted to the University.

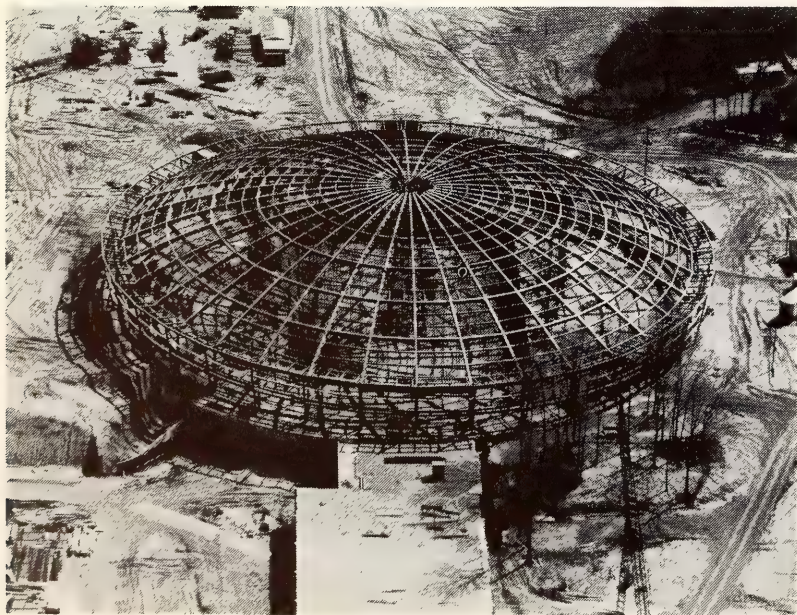
Any admission granted a high school student is subject to the completion of his high school work and maintenance of rank upon which the admission was made.

TO BE CONSIDERED FOR admission by transfer, you must present a full record of your previous academic work. This record includes evidence of graduation from high school and transcripts and evidence of good standing from *every* college and university attended.

### *Admission of Transfer Students*

Admission by transfer does not necessarily mean that all credit presented for transfer will be accepted. Transferable credit is determined through evaluation at the time of presentation. In all cases, at least three-fourths of transferable credit from each institution must be *C* quality or above. The University currently has a policy of accepting 99 quarter hours plus 6 of physical education credit from two-year institutions. This total of 105 hours is several hours more than the 96 usually considered to be a full two-year program.

An undergraduate transfer student with a 3.00 average may be eligible for unconditional admission in any quarter. One who does not have a 3.00 average but is in good academic standing at the school of last attendance will be considered for admission for summer, winter, or spring. One who does not have a 3.00 average and is not in good academic standing at the school of last attendance will be considered for admission for summer or spring provided there has been an interruption of schooling of





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at least one quarter's duration and there is tangible evidence to indicate that additional education can be successfully undertaken by the student.

A transfer student suspended for any reason other than academic failure must be cleared by the Student Affairs Division before admission will be granted.

EACH FOREIGN STUDENT must submit, in addition to the regular admission papers, a questionnaire for foreign students showing all previous schooling. The foreign student must also submit an official statement attesting to sufficient proficiency in English to do successful college work. Such a student should make adequate provision for his financial needs; the University does not assume responsibility for a student who arrives with inadequate financial resources.

*Admission of Foreign Students*

A FORMER STUDENT of Southern Illinois University not in attendance on either campus at the close of the quarter preceding application for admission must apply to the Admissions Office for re-entrance prior to registration.

*Admission of Former Students*

A former student who is not in good standing must clear his status before the Admissions Office will prepare his registra-



tion permit. It is advisable for such a student to initiate re-entrance clearance early so that all inquiries may be answered and the applicant can find time to complete any requirements that may be imposed upon him.



21



22

### *Admission of Unclassified Students*

A PERSON, not working toward a degree here or elsewhere, who wishes to register for particular courses without undertaking all of the regular plans of study may be admitted as an unclassified student. Such a student must present satisfactory evidence that he is prepared to take *advantageously* the work required.

Application for admission as an unclassified student should be made at the proper campus Admissions Office. Such a student must sign a statement indicating that he is not a degree student and that credit received cannot be applied toward a degree at this University while he is enrolled as an unclassified student.

A person desiring to register for only one or two courses may do so in the Admissions Office. A person desiring to take more than this is referred to the regular academic adviser for unclassified students. A person who has already received a bachelor's degree and wishes to register as an unclassified student is referred to the Graduate School.





27



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A STUDENT who feels a strong desire to have an automobile at the University but who has no real need for one should accept the fact that he will not be permitted to have an automobile at the University's Carbondale Campus. This does not apply at the Edwardsville Campus.

Only graduate students, married students, commuters, and students with exceptional need enrolled at the Carbondale Campus, including facilities at Southern Acres and Little Grassy, shall be permitted to use, operate, or possess an automobile in the campus community. The approved use of a motor vehicle is a privilege, the abuse of which will result in the loss of this privilege. All motor vehicles owned or operated by Carbondale Campus students must be registered with the Student Affairs Division.

### *Automobiles*



## ADVISEMENT

AFTER YOU HAVE BEEN ADMITTED to the University, you should talk with an adviser about your educational plans and complete your registration for the quarter you expect to enter the University.

To insure that you are properly advised concerning the choice of a course of study which will fulfill the requirements of the University and prepare you for your chosen career, academic advisement has been made the special responsibility of a selected group from the teaching faculty. During your first two years you will receive prime advice from an adviser responsible to the dean of the General Studies Division. Then, when you declare a special field of interest, your General Studies adviser will refer you to an adviser representing your special field of interest. Thus, as pointed out earlier, *your formal admission to a specific field of interest will be deferred until you have attained at least 64 hours*. Furthermore, you will not be permitted to register in General Studies once you have attained 96 hours.

## REGISTRATION

ADVANCED registration, during the third through the tenth week of each quarter, is used for advisement and registration for the following quarter. For example, a student who plans to attend during the winter quarter may register between the third and the tenth week, inclusive, of the fall quarter. All students are urged to take advantage of the advance registration period.

Registration for any session of the University is contingent upon being eligible for registration. Thus, a registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register for scholastic reasons, or for financial or disciplinary reasons if certified to the Registrar by the Student Affairs Division.

Detailed information about the dates and procedures for advisement and registration appears in the Schedule of Classes, available from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

If you plan to enroll in the Vocational-Technical Institute, you should write the Director, Vocational-Technical Institute,



28

Southern Illinois University, Carbondale, Illinois 62901, for information relative to advisement and registration procedures and dates. (See vti in the Glossary) Admission is initiated through the Admissions Office at Carbondale or Edwardsville.

YOU WILL NEED A SOCIAL SECURITY NUMBER for identification purposes. If you do not have a Social Security card consult your local post office for proper procedure in procuring one.

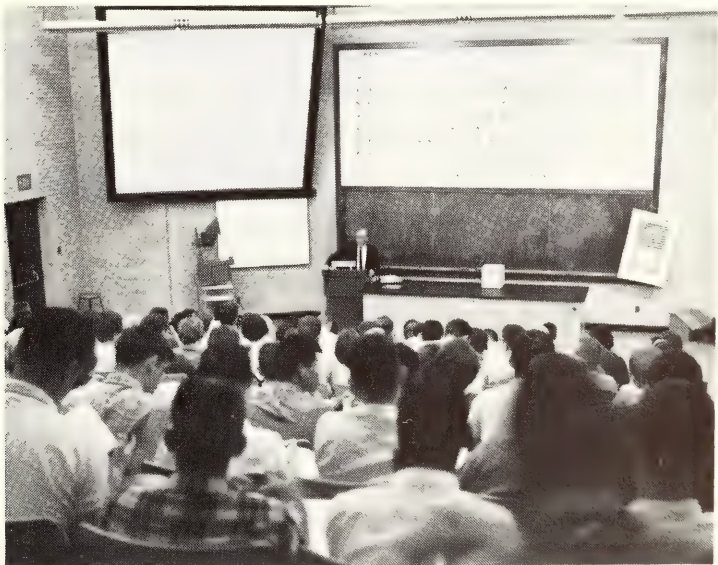
*Social Security  
Identification Number*



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IF YOU ARE entering from high school you must furnish scores on the test battery administered by the American College Testing Program (A.C.T.) as part of the entrance process. However, Illinois students in the lowest third of their high school class seeking admission to the fall quarter must submit such test scores

*Required Tests*



before their eligibility for admission can be determined. Out-of-state students who rank in the lower 60 per cent of their graduating classes must submit such test scores before their eligibility for admission can be determined. High school students are encouraged to take these tests during the fall of their senior year and thus be ready for academic advisement during the following summer. Information concerning the dates when the tests will be administered at regional centers is available from the Registrar's Office at either campus.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program, Iowa City, Iowa 52240.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades so must be requested separately from the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

#### *Academic Load*

THE NORMAL CLASS LOAD at Southern Illinois University is 16 hours with a maximum of 18. However, a student with a 4.25 average or above for the preceding quarter may be allowed by the head of his academic unit to take as many as 21 hours. In no case may you carry, or be credited with, more than 21 hours in any quarter. (See the Glossary for ACADEMIC, ACADEMIC LOAD, GRADE POINT, GRADE POINT AVERAGE)

A student on probation may not take more than 14 hours.

To be a full-time student, one must carry 12 or more hours per quarter. A part-time student carries fewer than 12 hours.

A student may not register for more than 8 hours if he is employed full-time.

Students desiring selective service deferment must be registered as full-time students. The Registrar's Office must report to the Selective Service Board when a student changes from full to part time, drops out of school, or graduates. For graduate students, 3 quarter hours is considered full time, in most cases, for Selective Service purposes.

#### *Grading System*

IN ADDITION TO the letter grades of *A*, *B*, *C*, *D*, and *E*, Southern Illinois University employs *W*, meaning authorized withdrawal; *Ab*, meaning unauthorized withdrawal; and *Inc.*, meaning incomplete work is to be completed later. A grade of *W* given at

the end of a course is final and may not be raised by preparing any additional work.

Any student who withdraws from a class without following the prescribed procedure will receive a grade of *Ab* (which counts as an *E*) in the course regardless of when the withdrawal occurs. Official withdrawal from a course is initiated with the student's academic adviser. Withdrawal from the University is initiated with the Student Affairs Division.

Any change of grade, as upon the completion of an *Inc.*, must be reported within a year after the close of the quarter in which the course was taken.

(See Glossary for *E*, GRADE POINT, GRADE POINT AVERAGE, HONORS, HOUR, HOUR OF CREDIT, CUM LAUDE, MAGNA CUM LAUDE, SUMMA CUM LAUDE)

A student who for some reason must miss the final examination may not take an examination before the one scheduled for the class. In this case, either *Inc.* or *W* is recorded by the instructor.

The official record of a student's academic work is maintained in the Registrar's Office.

IN ORDER TO WARN STUDENTS when they are not meeting the graduation requirement of a 3.0 (*C*) average, they are placed on scholastic probation. When a student's record is near scholastic probation the words "scholastic warning" are placed on his grade report.

*Scholastic Probation*

Quarter-to-Quarter Progress.—A student who is in good standing will be placed on good standing–scholastic warning at the end of a quarter in which he fails to earn a 3.00 average, provided he has calculated hours and an accumulative grade point average as follows:

CALCULATED HOURS	AVERAGE
Fewer than 96 .....	below 3.00
96 but fewer than 144 .....	below 3.100
144 or more .....	below 3.150

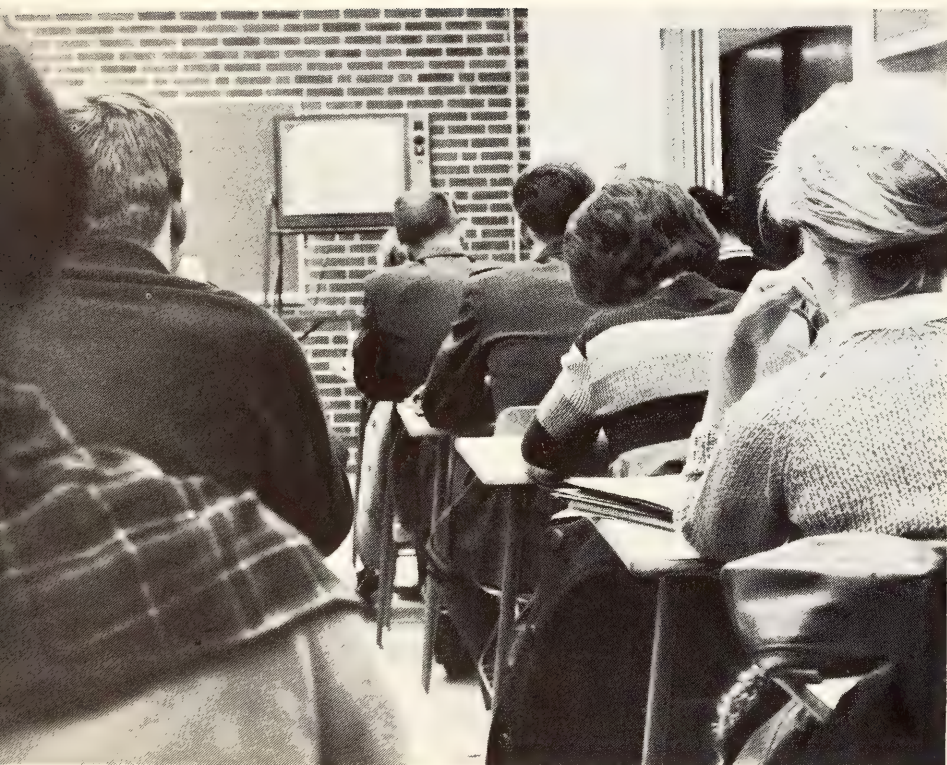
A student on good standing–scholastic warning is returned to good standing at the end of a quarter in which he earns a 3.00 average or above. If he fails to earn a 3.00 average, he is placed on scholastic probation. A student on scholastic probation is returned to good standing–scholastic warning at the end of a quarter in which he earns a 3.00 average or above, unless he earns a sufficiently high average to return his accumulative



average above the minimum limits listed above, in which case he returns to good standing. If he fails to earn a 3.00 average, he is subject to suspension from the University. (See the Glossary for PROBATION)

Yearly Progress.—At the end of each spring quarter a student is expected to have earned a progressively higher accumulative grade point average. If he has not, he will be suspended from the University for scholastic reasons. He may seek reinstatement after a minimum of two quarters interruption, but he must furnish tangible evidence that additional education can be successfully undertaken. The end of the spring quarter hours and averages are as follows:

CALCULATED HOURS	AVERAGE
48 but fewer than 96 .....	2.400
96 but fewer than 120 .....	2.700
120 but fewer than 144 .....	2.800
144 but fewer than 160 .....	2.900
160 or more .....	2.950



32







34

## *HONORS DAY AND GRADUATION HONORS*

IN RECOGNITION of high scholarship, an Honors Day convocation is held each spring. A candidate for a bachelor's degree in June or August who has maintained an average of 4.25 or more for all of his work through the winter quarter of his senior year receives special honor. Each junior having a 4.25 average and each sophomore and freshman having a 4.50 average is also honored at the convocation. Except in the case of a graduating senior, a student must be attending full time to be eligible. A transfer student must have earned the average indicated for work here only, as well as for the total record.

Graduating seniors are also recognized at commencement on the graduation program, and their diplomas designate honors granted on the following basis: Highest Honors, 4.90–5.00; High Honors, 4.75–4.89; Honors, 4.50–4.74.

(See the Glossary for "CONVO," CUM LAUDE, MAGNA CUM LAUDE, SUMMA CUM LAUDE)

## *AIR FORCE RESERVE OFFICERS TRAINING CORPS (AF ROTC)*

AEROSPACE STUDIES courses are available to all Carbondale and Edwardsville Campus male students who qualify by meeting certain mental and physical requirements. This series of courses

21

leads to a commission as a Second Lieutenant, United States Air Force, for the student who satisfactorily completes the Professional Officer Course.

Involved is a two-year program at the Edwardsville Campus for juniors and seniors and/or graduate students, and either the two-year or four-year program for Carbondale Campus students.

A limited number of Financial Assistance Grants are also available for qualified four-year program students.

For details of the course of study and credit hours, see the Undergraduate Catalog.

## *SPECIAL PROGRAMS FOR CREDIT*

### *Plan A*

PLAN A has been created and designed for the benefit of talented students who are interested in broadening their backgrounds in fields ranging from classic Greek culture to the impact of technology on contemporary American life, from motion picture as an art form to an intimate glimpse into the lives of the ancient Hebrews. Plan A is available on the Carbondale Campus only. It consists of one 3-hour course per quarter and extends over the four years. The courses, titled Honors Seminar, can be used as a secondary concentration. A student who does not do satisfactory work may be asked to withdraw from Plan A at the end of any quarter. (See PLAN A in the Glossary)

### *Individual Honors Work*

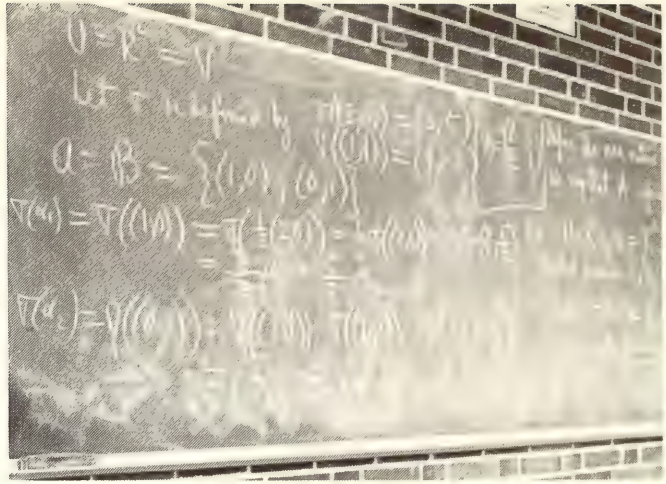
INDIVIDUAL HONORS WORK stresses research and independent study during the junior and senior years. Chairmen may compile lists of students eligible, or through conferences they may encourage outstanding students to do honors work. A qualified student may elect to take neither fewer than 9 nor more than 21 hours toward his concentration in independent research and investigation.

### *Proficiency Examinations*

THE UNIVERSITY recognizes the importance of providing adequate encouragement for academically talented students. It also realizes that some students come to the University with experiences or self-study that can be equated with formal classroom experiences. Thus, such students are permitted to make application to demonstrate the mastery of certain courses through proficiency examinations.

A student who wishes for the privilege of taking a proficiency examination should apply at the Registrar's Office.





The following general rules govern the program of proficiency examinations for granting undergraduate credit.

1. Any student who feels qualified to take a proficiency examination is eligible to do so; students scoring in the top ten per cent of A.C.T. are particularly encouraged to avail themselves of this opportunity.

2. Credit not to exceed 48 hours, including credit through the College Entrance Examination Board, Advanced Placement Program, may be earned through proficiency examinations. Credit will be nonresident.

3. Upon completing a proficiency examination in a course with a credit of *passing*, you will be granted regular credit toward graduation or toward any other legitimate objective. Your record will show the name of the course, the hours of credit granted, and a notation *credit granted by proficiency examination*. However, this credit will be neutral in the calculation of grade point average. If you fail a proficiency examination, your record will show nothing, but the report will be appropriately filed.





39

### *High School Advanced Placement Program*

4. You may not take a proficiency examination for the same course more than one time. Neither may you take a proficiency examination in a course in which you have previously received a grade.

5. No credit granted by proficiency examination will be recorded until you have earned at least 16 hours of credit of C grade or above in residence at Southern Illinois University.

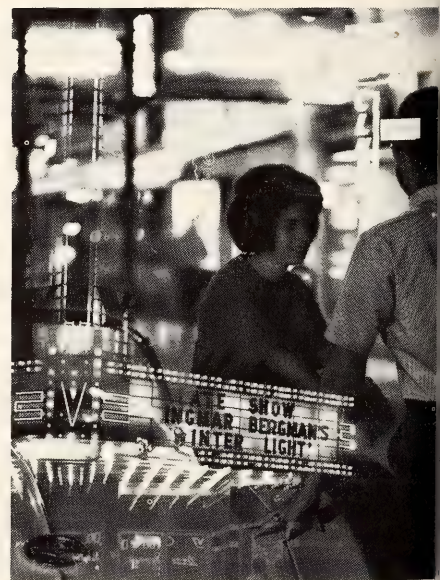
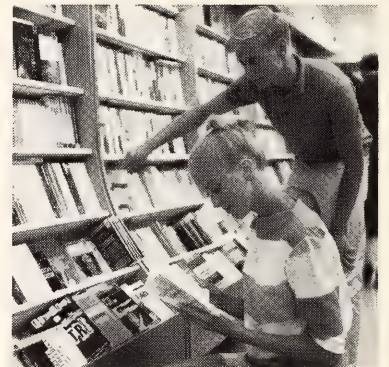
6. A student applying to take a test for advanced standing only should follow the same procedure. No credit is recorded regardless of grade earned.

IF YOU ARE QUALIFIED through registration in an advanced placement course in your high school or through other special educational experience, you may apply for advanced placement and college credit through the Advanced Placement Program of the College Entrance Examination Board, 475 Riverside Drive, New York, New York 10027. If you are interested, write to the University's Admissions Office to learn the current listing of courses for which credit may be earned through this program. Credit granted through advanced placement is nonresident credit,

41



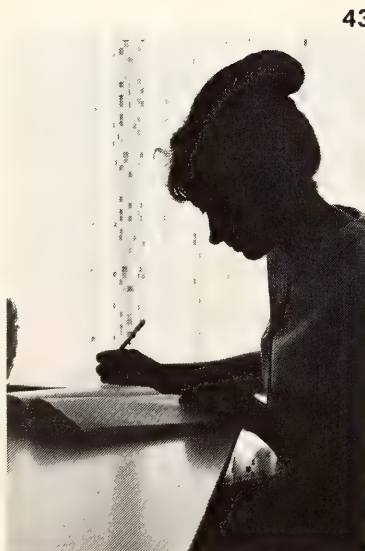
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42



43





46



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48



49

does not carry a grade, and is not used in computing the student's average grade. Ordinarily, the maximum credit allowed through placement examination is 16 hours.

ADVANCED STANDING in General Studies can be achieved on the basis of A.C.T. scores and the high school record or through passing a special advanced-standing examination in a particular course. Once advanced standing is granted, you may not take that course for credit.

This should not be confused with the previously described High School Advanced Placement Program. (See GENERAL STUDIES in the Glossary)

*Advanced Standing  
in General Studies*



## FACILITIES FOR INSTRUCTION

### *Material Resources*

IN ADDITION TO the Carbondale Campus (Carbondale, Southern Acres, Little Grassy) and the Edwardsville Campus (East St. Louis, Alton, Edwardsville), the University also operates experimental farms, fish hatcheries, wild life preserves, and a survey station in the Shawnee National Forest.

The hundreds of University buildings range from seventeen-story high-rise residence halls on the Carbondale Campus to low, flat buildings housing small animals used for experimental purposes, from the University Centers with their acres of floor space to the tiny bungalow whose kitchen is now used to prepare butterfly specimens.

Facilities range from the stubby piece of chalk to solve a difficult mathematics problem to the highly complicated electron microscope to probe the mysteries of matter, from access to over a million books in open-stack libraries to the privacy of a listening booth in a language laboratory, from an auditorium containing a class of 500 to what was previously an upstairs bedroom but is now a seminar room, from a clothing dummy to a playground full of lively children, from a print of a world-famous painting that can be checked out of a library to miniature dioramas depicting pioneer life.

And of course there are music rehearsal rooms, projection rooms, reading rooms, map rooms, rare book rooms, laboratories, listening booths, open- and closed-circuit television, programmed instruction machines in booths, and there are barns, bins, silos, and hen-houses.

But more important than land, buildings, and facilities is the faculty.

### *Faculty Resources*

THE FACULTY at Southern Illinois University, now numbering over twelve hundred and fifty, has been recruited from all over the United States and from around the world. It is composed of teachers, scholars, researchers, and others who have dedicated themselves to work not only on area problems but also on national, international, and "space" problems. Faculty interests are as varied as life itself, ranging alphabetically from anthropology to zoology, ranging chronologically from the study of life's beginnings to predicting population patterns ten years from now, ranging historically from the study of ancient Greek culture to



present-day economic problems in a town in *Little Egypt*, ranging artistically from the close examination of a Japanese water color to the casual appraisal of a hog.

Individual faculty members and faculty teams are at work teaching, training, and researching in dozens of nations on all the continents, while still others are training Peace Corps contingents for assignments that will in turn take them overseas.

Southern Illinois University provides the material resources and the faculty resources.

*But the success of the enterprise depends mightily on what you bring to the campus and what you take away.*

## WHAT WILL YOUR EDUCATION COST?

THE UNIVERSITY cannot tell you precisely what your education will cost. Individual tastes vary in clothes, food, and amusements. These variations will naturally be reflected in the budgets of the individuals. One student will spend as much on a single suit as another will on his entire wardrobe, will dine on the steak circuit while another goes the hamburger route, and will lavish his cash on commercial amusements while another spends only his time on rounds of conversation or games of chess. These are cost factors about which you must decide for yourself.



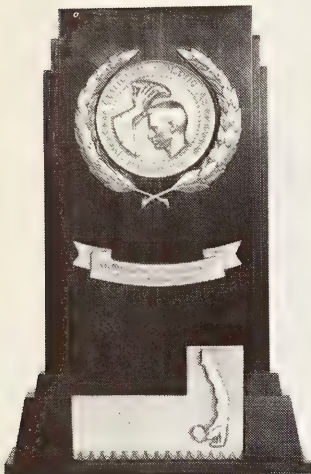


However, we can list basic items which are definite, and we can supply you with some rough approximations as to what you might expect an average budget to look like.

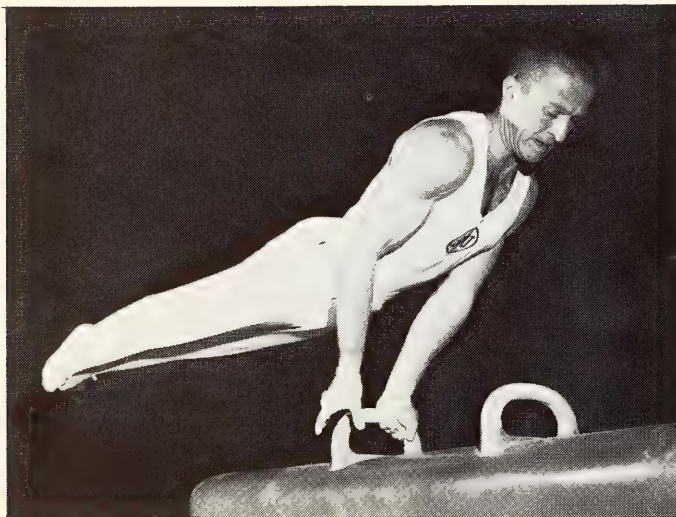
### Fees and Other Expenses

THE FEES CHARGED STUDENTS are established by the Board of Trustees and are subject to change when necessary. At the present time, the fees charged each undergraduate student for a quarter are as listed below. Graduate students (all students who have completed bachelor's degree requirements) pay the same fees except for the Book Rental Fee. Graduate students purchase their books.

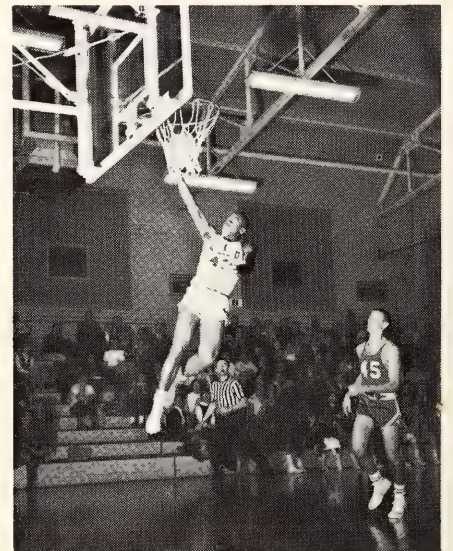
Tuition .....	\$ 42.00
(non-Illinois residents) .....	(172.00)
Student Activity Fee .....	10.50
University Center Fee .....	5.00
Student Welfare and Recreational	
Building Trust Fund Fee .....	15.00
Book Rental Fee .....	8.00
TOTAL .....	\$ 80.50
(non-Illinois residents) .....	(210.50)*



51



52



53

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. An AF ROTC equipment deposit of \$5 is assessed the first time a student registers if he is taking ROTC. This deposit,

\* If you have questions about what constitutes legal residence write to the Registrar's Office for an "Application to Be Classified as an Illinois Resident."



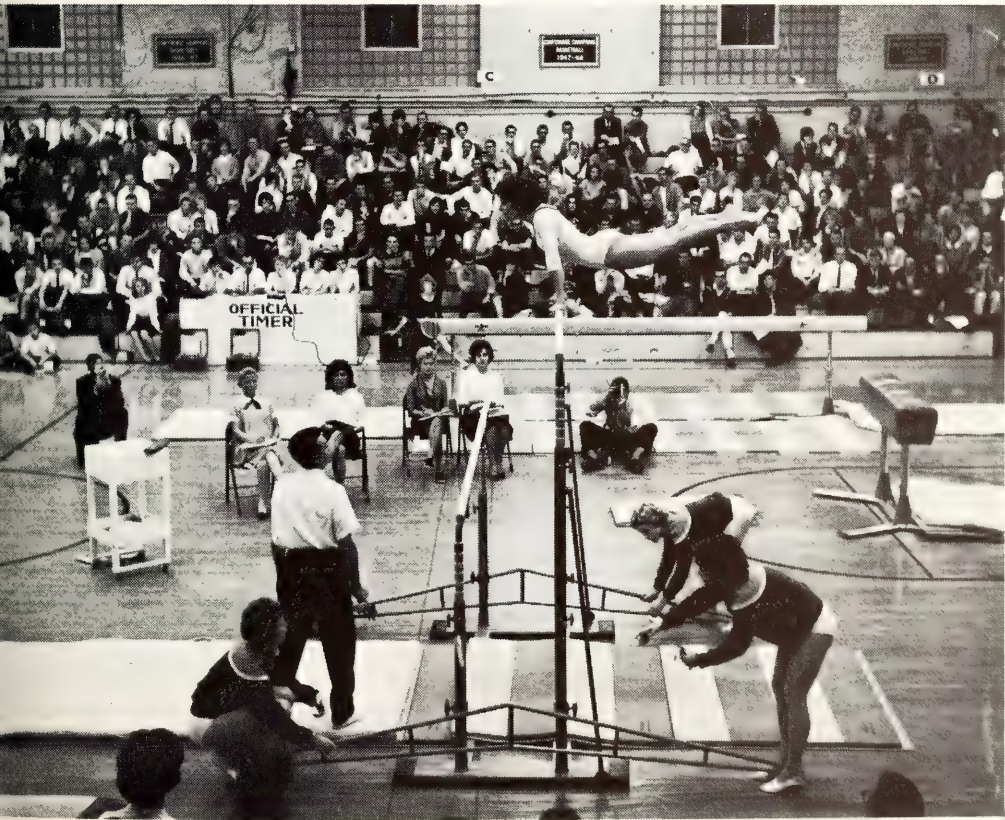
less any charge for lost equipment, is refunded to him at the end of the year.

- 2. The fee for late registration is \$2–\$5.
- 3. A student who changes his program from the one for which he originally registered must pay \$2, unless the change is made for the convenience of the University.
- 4. The graduation fee is \$17.
- 5. A graduate student who is a graduate of a school other than Southern Illinois University pays a matriculation fee of \$5. (See MATRICULATE in the Glossary)

Students holding valid state scholarships are exempt from the above fees to the extent provided by the terms of the specific scholarship held. An Illinois State Teacher Education Scholarship, an Illinois Military Scholarship, or an Illinois General Assembly Scholarship exempts the student from paying tuition, student activity fee, and the graduation fee.

The student activity fee includes fees for limited hospitalization, entertainment, athletics, student publications, and such other privileges as may be provided.

A part-time resident student taking not more than eight hours during a regular session pays half tuition and half the book rental fee. In addition, such a student pays the total University Center







56



58

57



fee, the total student welfare and recreational building trust fund fee, and has an option on paying the student activity fee.

Faculty members and university civil service employees taking courses are not charged tuition and activity fees. However, they pay the other fees as outlined above based upon whether they are paying fees on a full or part-time basis, and whether they are graduate or undergraduate students.

Extension course fees are \$6 per hour plus a \$1.05 book rental fee per course.

Adult education course fees are usually computed on the basis of approximately sixty cents per contact hour.

Other charges which a student may incur are those for field trips, library fines, and excess breakage. Also, a student taking a course involving use of materials, as distinct from equipment, will ordinarily pay for such materials, for example, art supplies.

A student registering for work on an audit basis is assessed fees on the same basis as when registering on a credit basis. (See AUDIT in the Glossary)

You are entitled to a free transcript of your university record each time you have added academically to your record through work taken on either campus, provided you have fulfilled all your financial obligations to the University. There is a charge of \$1 for each additional transcript.



FEES ARE payable quarterly during the academic year. A student who registers in advance receives a fee statement by mail and may pay either by mail or in person at the Bursar's Office in accordance with instructions accompanying the fee statement. A student who does not register in advance or who registers during the last week of the advance registration period must pay fees at the time of registration.

Refunding of fees is possible only if a student has withdrawn from school, officially, within the first ten academic days of a quarter and only if the application for a refund is received in the Registrar's Office within ten school days following the last regular registration day. This means that for quarters starting on Monday the withdrawal from school must have been officially made within the first two calendar weeks of the quarter and the refund application received by Monday of the third week. No refunding of fees is made for a withdrawal occurring after the first two weeks.

A student who originally pays full fees and then finds that he must reduce his program to eight or fewer hours may receive a refund of one-half the tuition and book rental fee, provided the reduction is officially made during the first ten days of the quarter. Refund payment will be delayed in such case until after the fourth week of the quarter.

*Payment and  
Refunding of Fees*



59



60



61

## CARBONDALE CAMPUS

### *Estimated Expenses for Three Quarters*

Approximate total of estimated expenses for three quarters is \$1,400 to \$1,900. LOW    HIGH

<i>Fees</i> for full-time students are normally \$80.50 per quarter. They are, of course, higher if special fees apply. ....	\$242	\$242*
<i>Room rent</i> per week varies from \$7.00 to \$12.50, for 36 weeks. ....	252	450
<i>Food</i> may cost \$3 or more per day. ....	756	882
<i>Miscellaneous expenses</i> , such as school supplies, transportation, and dates, vary widely—perhaps even from \$4 to \$8 per week. ....	144	288

## EDWARDSVILLE CAMPUS

Because there are currently *no housing facilities* on the Edwardsville Campus, the majority of the students are daily commuters. Transportation costs to and from school vary widely, and arrangements for room and board are usually made in one's own home. The estimated expenses, therefore, would be (\$242\*) for tuition and fees plus transportation costs and other miscellaneous expenses.

University Housing at the Edwardsville campus is being planned.

## HOUSING

### *University Housing*

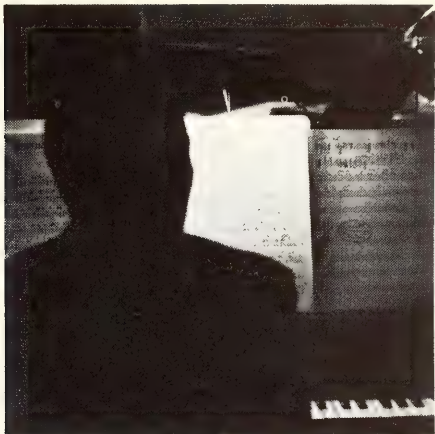
ON THE EDWARDSVILLE CAMPUS, students who wish to live away from their homes may obtain assistance and information concerning University approved living facilities from the University's Housing Offices at Alton, East St. Louis, and Edwardsville, Illinois.

A student desiring University Housing at Carbondale should apply to the Housing Office as early as possible because contracts are awarded in order of receipt of applications. Housing applications for an academic year are accepted anytime after September 1, of the preceding year. However, housing contracts are not awarded until admission requirements have been satis-

\* Non-Illinois residents should add \$390 to this amount.



fied. You should refer to the admissions section of this catalog for information as to when you may make admission application. In order to assure favorable housing conditions you are advised to complete your admission processing as early as possible in the permissible time period.



63



62



64

THE HOUSING OFFICE inspects and evaluates all supervised off-campus housing accommodations. Single undergraduate students must live in Accepted Living Centers or receive special permission for an exception. Anyone seeking off-campus housing should first contact the Housing Office and request a copy of the current listing of off-campus facilities. Staff members of the Housing Office are available to help students locate off-campus facilities. A signed contract is required for Accepted Living Centers. Be-

*Off-Campus Housing*

fore signing a contract or making any agreement with a householder, one should make a personal visit to the living area. If he is in doubt regarding the facilities or the contract, he should consult the Housing Office.

For information concerning University approved off-campus living facilities (Accepted Living Centers) in Carbondale consult the Housing Office.

### *Financial Considerations*

CHARGES FOR off-campus facilities vary with the distance from the campus, furnishings provided, provisions for cooking privileges, size of room, and other related factors. Off-campus facilities which do not provide meals generally cost \$78-\$145 per quarter. However, meals can be readily obtained from local cafeterias and from the University Center on campus. A student residing off-campus should expect to spend approximately \$14 per week for meals.

Present rates (per quarter) for University Housing for a single student vary from \$292 for permanent residence halls to room only charges of \$139 for group housing, depending on room and area. Family housing rates range upward from \$95 per month with utilities in the two-bedroom apartments. Trailer space is \$24 per month plus utilities.

The University is cognizant of the fact that the costs of board and room constitute, most often, the major source of expenses in relation to the student's total education. Therefore, the rates charged by the University for the various housing units are established on the basis of current costs, and a sincere effort is made to maintain these costs at the lowest possible level. Nevertheless, *all rates for University Housing are subject to change from time to time, depending upon the prevailing cost structure and approval by the Board of Trustees.*

## STUDENT SERVICES

THE UNIVERSITY does have concern for the individual student and his personal interests. Special activities and services provided include: (1) Health Service, (2) Counseling and Testing Center, (3) Academic Advisement Center, (4) Placement Service, (5) Student Activities Center, (6) special services for disabled students, (7) religious foundations' activities, (8) athletic programs, such as varsity sports in ten areas (Carbondale only), and



intramural programs, (9) academic and service clubs, (10) honorary and professional fraternities.

*FINANCIAL ASSISTANCE*

INSOFAR AS POSSIBLE, the University attempts to assist needy and deserving students with their financial obligations. The program of financial assistance includes scholarships, awards, prizes, grants-in-aid, and student loan funds. As part of the award program, the Board of Trustees of the University has established tuition awards known as Southern Illinois University Scholarship and Activity Awards. To apply for awards, entering freshmen are required to have ranked in the upper half of their graduating class and to have achieved a minimum comprehensive high school average of C.

The comparative limitations of such forms of assistance make it inadvisable for an undergraduate student to expect to meet all university expenses from such sources. The student himself normally supplies one-third to one-half of his finances through work during the summer or during school, and through his savings.



65

66





## STUDENT WORK PROGRAM

THE STUDENT WORK PROGRAM, operating on the Carbondale and Edwardsville campuses, offers a wide variety of job opportunities. The rate of pay varies depending on the job, the skills, qualifications, and work experience of the student employee. Also the Student Work Office assists students in obtaining off-campus jobs and full-time summer employment.

## THE LIFE OF THE STUDENT

### *Extracurricular Activities*



67

STUDY is the serious business of the University student. However, the University also provides an array of extracurricular activities. And one of your problems will be deciding which of the many you will wish to cultivate. Here is a sampling of some of the areas providing extracurricular activities: student body membership, publications, athletics, music, theater, religion, and literally hundreds of clubs, including honor societies and service clubs. You will find it a bewildering array to choose from but also an excellent test of your powers of judgment of yourself and of activities.

A close reading of the picture captions will provide you with considerable insights into student life as well as other aspects of the total University.



68



69

THE FOLLOWING LIST of clubs will give you some idea of the variety and range of such organizations. It is by no means a complete listing but rather an alphabetical random sampling from both campuses. Which ones do you think *you* might be interested in?

*Clubs*

Advertising Club	Flying Salukis Club	Korean Students Club
Alton Center Players	Geology Club	Modern Dance Club
Block and Bridle Club	History Club	Psychology Club
Chinese Students Club	Humanities Club	Russian Club
Der Deutsch Club	Instructional Materials	Sagasu Judo Club
English Club	Club	Writer's Playshop
Finer Films Group		

THERE IS at least one organization in each of these areas at Southern Illinois University.

*Honorary and  
Professional Organizations*

Academic Scholarship	Debate	Music
Accounting	Economics	Photography
Advertising	Education	Physics
Agriculture	Geography	Publications
Architecture	Government	Radio-Television
Business Administration	Home Economics	Sales Management
Business Education	Industrial Education	Secretarial Science
Chemistry	Journalism	Speech Correction
Commerce	Mathematics	Speech

AGAIN, random sampling shows such interest areas as:

*Special Interest Groups*

Amateur radio	Fencing	Politics
Campus service	Fine arts	Rocketry
Cheerleading	Folk art	Spelunking
Civil rights	Herpetology	Square dancing
Computing machinery	International relations	Synchronized
Cricket	Parachuting	swimming
Debating	Peace	

THE UNIVERSITY CENTER building is the non-academic center of each campus. Its Student Programming Board provides cultural, social, and recreational programs.

*University Center Buildings*

The Center provides facilities for dances, banquets, receptions, gallery exhibitions, and meetings. There are also cafeterias, lounges, a TV lounge, a music-listening lounge, study rooms, bowling lanes, pool and billiard tables, Ping-Pong tables, card and study tables, barber shop, snack bar, craft shop, locker storage space, and vending machines.

Also in the Center is the University Book Store, where you may browse or buy or both. The merchandise varies from unabridged dictionaries to ash trays.



## Glossary\*

The following is a list of words, phrases, abbreviations, titles, etc., most of which are to be found in use on practically every campus in America. A few have specific applicability only to Southern Illinois University, *e.g.*, *Obelisk*, which is the Carbondale Campus yearbook, or *Alestle*, the Edwardsville Campus weekly student newspaper.

Familiarity with these terms, many of which you already know, will help you no matter what school you choose to attend.

You can test your familiarity with college jargon by “translating” this sentence. You will find a “translation” of it at the end of the Glossary.

Because he took too many cuts he flunked a seminar that should have been a snap and consequently he was dropped from the Dean’s List that quarter and thereby became ineligible for a *cum laude*.

**Absence policy.** (See **cut**) There is no such thing as an excused absence at Southern Illinois University. Excessive absences may bring a recommendation from the instructor to the student’s dean that the offender be dropped from the class. NOTE: Everyone recognizes that there are such things as extenuating circumstances. Faculty members are always happy to hear of bona fide extenuating circumstances. Nevertheless, the first sentence stands.

**Academic.** In college it usually means related to class work. Example: “Academically he’s in bad shape but physically he’s great!”

**Academic load.** Number of hours of course work. The normal academic load here is 16 hours per quarter. (See **hour**)

**AF ROTC.** Abbreviation for Air Force Reserve Officers Training Corps. (See **ROTC**)

**Alestle.** The student newspaper on the Edwardsville Campus.

**Area of Concentration.** A subject or field of study chosen by a student to represent his principal interest and upon which he concentrates a large share of his efforts, preferably academic.

**Audit.** To attend class and do prescribed work but not receive a letter grade or credit.

**Beanie.** Green cap worn by freshmen a prescribed length of time and disposed of in a prescribed manner, the manner differing from school to school.

**BMOC.** (See **wheel**) Initials for Big Man On Campus.

**Book Rental Fee.** Instead of purchasing their texts, undergraduate students at Southern Illinois University pay a rental fee of \$8 per quarter.

**Bursar’s Office.** Students pay tuition, fees, and

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\* A list of basic terms with definitions.



residence hall charges, and organization officers deposit funds here.

**Campus.** The grounds of a college. Southern Illinois University has campuses at Carbondale, Edwardsville, Alton, East St. Louis, Little Grassy Lake, and Southern Acres. (See **VTI**)

**Campused.** The restriction imposed on coeds for "late minutes" on closing hours; usually entails remaining in room or residence area for a stipulated period of time. Can be imposed for other minor reasons as well.

**Coed.** A woman attending a college or university.

**College.** (See **university**) An institution of higher learning. Colleges and schools are major educational divisions of the Carbondale Campus. One may petition to enter a college or school from General Studies after completing 64 hours. (See **General Studies**)

**Colloquium.** Speaking together informally. (See **seminar**)

**Convo.** (Short for **convocation**) A cultural program open to all students but required of all freshmen on the Carbondale Campus. The program series varies from talks by foreign correspondents to performances by outstanding jazz artists. There is also an honors day convocation. (See **honors day**)

**Curriculum.** The aggregate of courses of study given in a university; the regular or particular course of study in a school, college, etc. Example: The English curriculum in the College of Liberal Arts and Sciences. (Plural: curriculums or curricula)

**Counseling Center.** A center staffed with professional counselors with whom a student may discuss freely any problem or plan that may concern him, be it personal, academic, or vocational.

**Course.** Any one of the studies in a systematized or prescribed series. Examples: Chemistry 111a,b,c (a year course); Speech Correction 428, Playwriting 411 (term courses).

**Cum Laude.** With Honor. The designation at Southern Illinois University is Honors. The lowest of three special honors for grades above average, requiring a grade point average of between 4.50 and 4.74. (See **honors**)

**Cut.** The vountary non-attendance of class, "convo," lecture, etc.

**Dean's List.** The academic honor roll.

**Decal (or Sticker).** A gummed label applied to a prescribed place on the vehicle (depending on the model) indicating the owner or operator has University approval to use, operate, and possess said vehicle—and has paid his fee.

**Degrees.** Although there are many kinds of degrees, the basic ones are associate degree, usually requiring two years; bachelor's degree, ordinarily requiring four years of undergraduate work; master's degree, ordinarily requiring one year beyond the bachelor's degree; specialist's degree, requiring one year beyond the master's degree; and the Doctor of Philosophy degree, ordinarily requiring two years work beyond the master's degree.

**Division.** One of the parts into which the University is divided. This term is employed on both campuses, e.g., Education Division (Edwardsville), Student Affairs Division (Carbondale).

**Dorm, Dormitory.** Technically, a building containing a number of sleeping rooms. Obviously this dictionary definition is inadequate today. At Southern Illinois University we usually speak of a residence hall rather than a dormitory since in addition to containing sleeping quarters often it has cafeterias, classrooms, library, laundromat, TV viewing rooms, meeting rooms, and sometimes study rooms. Primarily we think of a residence hall as your college residence, which connotes the importance of developing or maintaining a meaningful way of living while at college.

**E.** (meaning letter grade) (See **grade point system**) The grading scale runs: A, B, C, D, and E. Thus E means fail or flunk; F is employed by many colleges and universities as its equivalent.

**Egyptian, The.** The daily student newspaper on the Carbondale Campus.

**Elective.** A course that counts toward a degree but is not required. So called because the student "elected" or chose to take it.

**Emerita or Emeritus.** Retired or honorably discharged from active duty because of age, infirmity, or long service, but retained on the rolls.

**Extracurricular.** School activities not taught in the classroom, though functioning under the guidance of the faculty, such as sports, clubs,

etc. On the Carbondale Campus there are approximately 350 such organizations and 100 on the Edwardsville Campus. Activities range from sky diving to spelunking.

**Freshman.** Technically, a (first-year) student who has completed less than 48 hours of course work. Academically, one who has just begun the long process of discovering how little he knows.

**General Studies.** (Also known as GS. See description of General Studies under "Admission Requirements and Procedure.") A required series of courses designed to provide the student with relevant and continuous subject matter, to aid him in understanding and relating discoveries, to instruct him in the use of knowledge to advance social and cultural life, and to prepare him to assume his proper responsibilities in society.

**Grade Point System.** The letter grade translated into a number. This University uses the five-point system: A equals 5 points; B, 4; C, 3; D, 2; E, 1. Some schools employ the four-point system, some the three-point. Obviously it is important to know what grade point system the college or university employs when discussing grade point averages. (See **grade point average**)

**Grade Point Average.** To find your grade point average divide your total grade points by your total hours. Example: 16 hours into 48 grade points goes exactly three times, thus a 3 point average, or, translated into a letter grade (on the five-point system), precisely a C average. Or, supposing you have amassed a total of 96 hours and your grade point total is 336. You divide 96 into 336 and the result is 3.5, or, precisely midway between a C (3.0) and a B (4.0).

**Grant-in-aid.** Like a scholarship in that the student is not obligated to return the money. However, a grant-in-aid may be on the basis of the student's talents and leadership rather than on high grades. For example, a recipient might excel in debate, music, leadership. Technically, scholarship implies high academic rating. However, loose use of the word has resulted in such expressions as "He's going on an athletic scholarship." It would be more precise to say, "He's going on a grant-in-aid." Simply, the terms have become blurred.

**Honoraries.** (Honor Societies) Organizations designed to honor students, usually for academic excellence.

**Honors.** (See **cum laude**, **magna cum laude**, and **summa cum laude**)

**Honors day.** A convocation held each spring at which outstanding student scholars are publicly recognized.

**Hour.** At Southern Illinois University an "hour" of class work means 50 minutes, not 60. However, though classes are preponderantly 50 minutes long, some are considerably longer, for example, lab sessions, seminars, etc. (See **seminar**)

**Hour of credit.** An hour of credit represents the work done by a student in a lecture course attended one hour per week for one quarter, and in the case of laboratory and activity courses, the stated additional time. A quarter hour. Example: A student attends his GSD 101a (Composition) class three hours a week. Rather than a literal total of 3 x 60, or 180 minutes, he will spend 3 x 50, or 150 minutes in class. Class period lengths vary considerably throughout the nation, but the 50-minute period is the most common.

**Identification card or ID.** You should have your identification card handy at all times. You must have it to check out books, to gain admission to various events, and even to identify yourself. Losing an ID card is the equivalent of losing a credit card. On the ID card appears your Social Security number. If you do not have a Social Security number, consult your local post office. You cannot complete registration without one.

**Institute.** A unit within the University organized for advanced instruction and research in an interdisciplinary subject. Permanent instructional institutes on the Carbondale Campus are in inter-American studies, labor, rehabilitation, small business management, community development, and transportation. Also there is a variety of short-term institutes ranging from banking practices to motel management.

**Intramural.** Engaged in or pertaining to a single college, or its students. Literally the word means "within the walls." Intramural sports as compared with sports "between colleges."



**Jud board** or **J. board**. Committee of student members selected by residents of their living area to handle violations of regulations.

**Junior**. A student who has from 96 through 143 quarter hours.

**LA&S**. Short for Liberal Arts and Sciences. The College of LA&S offers courses in seventeen areas on the Carbondale Campus. (See **division**)

**Magna cum Laude**. The second highest of the honors granted at graduation requiring a grade point average of from 4.75 to 4.89. The designation at Southern Illinois University is High Honors.

**Matriculate**. To enroll in a college or university.

**Muse, The**. Student yearbook on Edwardsville Campus.

**Obelisk**. Student yearbook on Carbondale Campus.

**Plan A** (or **honors seminar**). Special plan of study open to talented students, who engage in directed readings and informal, small-group discussions with two instructors to each group.

**Pop quiz**. (Slang) An unannounced quiz or short test.

**Probation, Scholastic**. A trial period in which the student is permitted to try to redeem his academic failures.

**Probation, Disciplinary**. A trial period in which the student is permitted to try to redeem his failure(s) in conduct by developing a more mature approach to his personal behavior.

**Proficiency, to**. To be excused from taking a course by demonstrating sufficient expertness by examination. A proficiency test connotes credit as contrasted to no credit in an examination for advanced standing.

**Quad**. (short for **quadrangle**) a quadrangular space or court wholly or nearly surrounded by a building or buildings. Found on many campuses, particularly older ones.

**Quarter**. (See **semester**) One of the periods into which instruction is organized, generally 10 to 12 weeks in length. Southern Illinois University now operates on a four-quarter system.

**Quiet Week**. On the Edwardsville Campus, the three calendar days prior to the day on which final examinations begin. No activities or meetings of any kind shall occur then.

**Registrar**. The University officer who processes student admissions, coordinates the total registration process, keeps the students' academic records, and assists in certifying students for graduation.

**Rhetoric**. The art of prose in general. Sometimes applied to freshman composition courses and/or the text.

**ROTC**. (Verbalized as rot-see) Short for Reserve Officers Training Corps.

**Saluki**. (Pronounced suh-loo'kee) Elegant Egyptian dog adopted as the University's mascot and symbol. It resembles a greyhound and is reputed to be the fastest of all dogs.

**Scholarship, on**. The position of a student who, because of academic merit, leadership, athletic ability, etc. is granted money or other aid to pursue his studies. (For further obfuscatory remarks see **grant-in-aid**)

**School**. A particular faculty or academic unit of the University having the right to recommend candidates for degrees. On the Carbondale Campus there are schools of agriculture, business, communications, fine arts, home economics, and technology.

**Section**. The particular class (group of individual students) taking a course. There may be as high as a hundred sections (individual classes) taking a single course. A section might range in size from a half dozen students to hundreds of students.

**Sectioning Center**. Where students are assigned to particular sections, after being advised. Not to be confused with Counseling and Testing Center.

**Semester**. (See **quarter**) One of the periods into which instruction is organized, usually consisting of 15 to 18 weeks. One must resist the temptation to call three semesters a "trimester" because "trimester" literally means "period of three months." Southern Illinois University is on the quarter system.

**Seminar**. A small group of students engaged in advanced study and original research under a member of the faculty.

**Senior**. A student who has completed 144 quarter hours or more.

**Snap**. (Slang) Easy quiz, examination, even applicable to an entire course.



**Sophomore.** A student who has completed at least 48 but less than 96 quarter hours.

**Sou'wester.** Student literary magazine published on the Edwardsville Campus.

**Spring break.** The vacation period between winter and spring quarters.

**Summa cum Laude.** With the highest honor. Which means the student achieved a scholastic record during his four years of 4.90 or better. The designation commonly employed is Highest Honors.

**Syllabus.** A brief statement of the main points of a course. (Plural: syllabuses or syllabi)

**Symposium.** A collection of opinions expressed, or articles contributed, by several persons on a given subject or topic.

**Term paper.** As the name indicates, a paper exacted of a student by an instructor and usually due late in the term. Such papers vary so greatly in length, depth, breadth, and form as to deny specific description. Not all courses require the writing of a term paper. Often it is left to the discretion of the individual instructor.

**Thesis.** The word has varied meanings such as: (1) a subject for a composition or essay, (2) a dissertation usually presented by a candidate for a degree (M.A., Ph.D.), and (3) a proposition to be maintained or proved. (Plural: theses)

**Thompson Point.** (Short: TP) Residence area on the Carbondale Campus located on the edge of Lake-on-the-Campus, the latter large enough to permit fishing, boating, and swimming. The lake is wholly within the confines of the campus.

**University.** An institution of learning of the highest grade, having a college of liberal arts

and a program of graduate studies, together with several professional schools and faculties and authorized to confer degrees. Continental European universities usually have only graduate and/or professional schools.

**University School.** The University's research-oriented grade school located on the Carbondale Campus in Pulliam Hall.

**USC.** University Student Council.

**VTI.** Initials for Vocational-Technical Institute, located ten miles east of Carbondale on the site of the former Illinois Ordnance plant, near Crab Orchard Lake. This campus is referred to as Southern Acres. The program at VTI provides high school graduates with one and two-year college-level terminal options for training technicians. These options are designed to prepare men and women to fill the positions in business and industry between the skilled worker and the engineer or professional man.

**Waive.** To put aside or dismiss in connection with a course. In particular this means approval to omit some required course and take related work in the same subject area.

**Wheel, a.** A "Big Shot" or important person. However, this estimate might be subject to debate.

**Work load.** (See **hour**) Recommended maximum work load is 80 hours per month for students carrying 15 or more hours, 100 hours per month for those carrying 12 to 14 hours.

**WSIU-FM.** University's FM radio station (91.9 megacycles) on the Carbondale Campus.

**WSIU-TV.** University's television station (Channel 8) on the Carbondale Campus.

### *Translation of Jargon at the Beginning of the Glossary*

Because he failed to attend many meetings of the class that consisted of a small group of students engaged in advanced study and original research under the direction of a member of the faculty (which in reality was an easy course to pass), he failed it, thus making himself ineligible for the academic honor roll that quarter because his grade point average fell below the necessary 4.25 required (5 points for an *A*, 4 for a *B*, etc.) and it also made him ineligible to graduate "With Honors" because to have that distinction one must maintain a four-year average of at least 4.5, which is precisely halfway between an *A* and a *B*.

## Picture Captions

PARTICULAR PICTURES, discretely chosen and sequentially placed, present more vividly the memorable events, and customs which may belong to you. The picture captions, then, become a third dimension, with the written history and present procedures, and pictures, in not only preserving more completely the richness of the University's past but also giving clarity to your questions.

The captions belong to their particular number as found throughout the bulletin.

1. Morris Library, intellectual hub of the University, Carbondale Campus. "I onely endeavour to find out the knowledge that teacheth or handleth the knowledge of my selfe and which may instruct me how to die well, and how to live well." . . . Michel de Montaigne

2. Students lounge, listen, look, and talk on University Center patio during summer Symphonic Band Concert. In good weather the patio is a popular place for coke or coffee sipping and debating or just plain gossiping.

3. Aerial view of recently completed Arena Building (seating capacity 11,000), banjo-shaped building with 300-foot diameter dome.

4. Boy meets girl under umbrella fountain just outside Old Main, Carbondale Campus. The last time we looked there were some coins in the pool. However, we do not know if they were tossed to bring good luck on an exam or good luck in an affair of the heart. Either way, we wish good luck.

5. Lovejoy Library, on the Edwardsville campus, houses more than 280,000 volumes, mostly in open stacks. Before completion of the cafeteria, in the University Center, food vending machines were located in the library. These

hungry people are participating in the dedication of Lovejoy Library. Outdoor dining facilities now are roofed (Edwardsville does have rain, often at meal time) and cafeteria lines are short.

6. Landmark on the Alton campus, a wishing well. Its history goes back into the days of Shurtleff College, which is now leased by the University for its Alton Center. It is a favorite spot for students to gather and—well, wish.

7. Every campus has its customs, legends, and landmarks. This antique canon that squats blindly outside Old Main on the Carbondale Campus is perhaps the most famous landmark on that campus. Over the years it has received hundreds of coats of paint—all applied in the dead of night. By whom? That too is part of the legend.

8. This particular Saluki doesn't seem particularly elated with the way the ball game's going. Nevertheless, he is the University mascot and the Saluki dog is the school symbol. Saluki dogs are graceful, gentle, terribly speedy, and terribly expensive and rare. (See SALUKI in the GLOSSARY)

9. Typical spring, summer, and fall scene at Lake-on-the-Campus, Carbondale campus. The



beach is directly across the lake from the Thompson Point residence halls. There are a change and shower house, life guards, diving raft, children's wading area, picnicking tables under domes, and even a tiny island with a big tree. Within walking distance? Certainly.

10. Every fall this scene can be duplicated at thousands of depots across the nation as thousands of students head for the two thousand colleges and universities in America. The stickers are different but the contents of the suitcases and accompanying dreams are pretty much alike. It's one of the most memorable moments you will live through.

11. Thompson Point residence halls clustered on a headland that juts into Lake-on-the-Campus. You can boat on the lake, swim and fish in it, picnic by it, hike around it, and sometimes ice skate on it, though we cannot guarantee the skating.

12. Aerial view of part of Crab Orchard Lake's 125 miles of shore line. The lake, four miles east of Carbondale, is frequented by students for swimming, water skiing, boating, and picnicking. The lake is the largest body of water in southern Illinois.

13. An example of the latest in auditorium design: curved walls for improved acoustics, illumination via in-set lights, air conditioning, wide center aisle running crosswise rather than lengthwise. Too, the rows are so spaced as to obviate stepping on other people's feet.

14. Neely Hall, women's residence hall on the Carbondale campus. Its seventeen stories (170 Ft.) make it the tallest building designed for human occupancy in the state of Illinois south of Springfield. Two more high-rise residence halls (not both for women) are under construction.

15. Home Economics Building: contains classrooms, seminar rooms, laboratories, offices, a home management house on the roof, child development laboratory, elevators, two fireplaces, and is air-conditioned. The iron fence in the foreground will remind you that Southern Illinois University is nearly a century old.

16. As the University annexes property for its expanding campuses, it also annexes homes which are sometimes used as temporary quarters

for various departments. Eventually all departments will find permanent homes in permanent buildings. Until then, these will continue to be signs of the times.

17. This is how the Arena looked at one stage of its development. The dome is 300 feet in diameter and the building will seat 11,000 for basketball games. The first event held in the Arena was the commencement exercises in the spring of 1964.

18. Woody Hall: four stories, home to 440 women it accommodates. Situated on just about the busiest spot on the Carbondale campus, across the street from the Home Economics Building and Old Main (visible on the right). During spring quarter you might find yourself on the Woody patio attending a concert or a beauty queen pageant or just visiting.

19. View from the second floor of Old Main and reminding that it does snow at the University on occasion. And that somebody is proud to be from Benton. You are wondering about overshoes? By all means bring them. Skates? A fifty-fifty chance. Skis? Don't bother.

20. Students heading for class on a winter morning by way of Thompson Woods, proving again you will encounter snow at the University though not the deep, long-lingering variety. So at Southern Illinois University you will find four distinct seasons and four matching school quarters: fall, winter, spring, and summer.

21. Twenty miles east of the city of St. Louis this orchard and bean field have blossomed into the Edwardsville campus. It is a completely planned campus, from the actual location of the site to the precise location of a TV screen for closed circuit classroom viewing.

22. An aerial photograph of the buildings that make up the Edwardsville campus complex. A unique feature of this planned campus is that it is a commuter's university, without residence hall facilities. However, strategically located and ample parking lots are being constructed to serve a student body of 18,000.

23. You will find your fellow students vary in their study habits. Some prefer a noisy clutter, some a more orderly arrangement of familiar keepsakes, and some prefer simply quiet and a bare desk top. In the final analysis, you, and only



you, will do the learning. Objects learn little, if anything.

24. Proving that you can study just about anywhere, this coed occupies her time by studying while waiting in a car. You too will find yourself studying in many places other than in the quiet of the library or your room.

25. There comes a time in the day's occupation when a bit of "shuteye" is not only excusable but necessary. This is not uncommon sight during the last week of the quarter. Still, one of the three is quietly "hitting the books."

26. Perhaps you will like to study in the midst of an orderly display of pictures, dance programs, organization insignia, mementos of all kinds. Perhaps the greatest study aid, however, is still a bright roommate or friend. Maybe **you** will be that roommate or friend.

27. Although this coed has to pay for the use of a commercial laundromat, she is making it pay off by utilizing her time in study. One thing you will learn in college is: you can study just about anywhere.

28. Familiar sight outside Shryock Auditorium after freshman convocation. The freshman class has grown so large as to require a 10 a.m. and 1 p.m. "convo" each Thursday. Only outstanding public figures and top performers and personalities appear on these programs. (See CONVO in the GLOSSARY)

29. Dr. Robert Faner, professor of English and 1964 recipient of the Great Teacher Award voted by the SIU Alumni Association, lecturing to his class in American Drama. The class is typical in size and arrangement.

30. Dr. Luis Baralt teaching a seminar on the philosophy of Henri Bergson. Dr. Baralt before coming to Southern Illinois University was Dean of the School of Philosophy and Letters, University of Havana. (See SEMINAR in the GLOSSARY)

31. Professor Thomas Cassidy, 1962 Recipient of the Great Teacher Award voted by the SIU Alumni Association, lecturing to his GSC 103 class titled Masterpieces of Literature. Every third meeting the class is broken up into small discussion or "quiz" groups. Note: The "Periodic Chart of the Elements" is a reminder that Browne Auditorium is primarily a science lecture

and demonstration auditorium. (See GS in GLOSSARY)

32. In an attempt to meet ever-mounting enrollments with high quality instruction and efficiency, Southern Illinois University employs closed-circuit television in some courses. Ordinarily these taped programs run a half hour with the classroom teacher taking over for the remaining twenty minutes. Programs are taped by the University's TV station, WSIU-TV, Channel 8. (See HOUR in the GLOSSARY)

33. Dr. Harry T. Moore, international authority on authors D. H. Lawrence and James Joyce, conducts a two-way telephone lecture-interview to classes on a half dozen campuses in Mid-West states. Dr. Moore conducted this far-flung class from his home in Carterville, Illinois.

34. Book-laden students heading for the Plan A House, headquarters for the Plan A curriculum. Plan A (or Honors Seminar) is open to a limited number of more talented students. Instruction is informal, the groups are small (usually ten to a group), and two instructors to each group. Readings for the four years range from aesthetics to the impact of technology on society.

35. Programmed instruction employing the latest machines is employed wherever feasible and demonstrably capable of doing the job. The University's instructional materials department has been pioneering in this area for years with the assistance of Federal grants.

36. The aftermath of a Linear Algebra I math class. As you can see, all the time-honored classroom ingredients are present: blackboard (only brown), chalk, eraser, and a very much alive teacher.

37. It seems the clarinet section is staying after the regular rehearsal for some private direction. They are not rehearsing in the street. Background is downtown London, part of the set for the musical **My Fair Lady**.

38. Not all class work is done in the classroom, the laboratory, the auditorium, or the studio. Weather permitting, considerable sculpturing is done in the outdoors. The sound of hammer on chisel and chisel on wood or stone is a familiar one.

39. The bicycle is now an integral part of

practically every college town and campus. The University provides special bike racks in chained off areas and even special sidewalks for cyclists. Today in a bike basket you will find the wisdom of the world—often in paperback.

40. Students walking to class through Thompson Woods from their residence halls on Thompson Point, Carbondale campus. Paved paths provide pleasant walking through the lush wooded area in the heart of the campus. (See TP in GLOSSARY)

41. More and more students are acquiring the habit of browsing in the University Book Store in the University Center. Students are encouraged to form their own private libraries, something highly desirable and not altogether bankrupting, thanks to paperbacks.

42. Not all paddling is done by fraternities. This couple are out for a canoe ride on Lake-on-the-Campus. In the background is a student angler standing on one of the fifteen concrete piers that make fishing here a dry-footed sport. Canoes, rowboats, **and** bicycles can be rented at the boat dock.

42. Coed studying in a far corner of the Roman Room, main cafeteria of the University Center, Carbondale campus. One of the secrets of a successful college career is the utilization of those “free” hours between classes.

44. A photography student’s triple exposure impression of student life at the University: 1) boy meets girl, 2) a local theater showing an “art” film at the Late Show beckons, but 3) so do many blazing neon signs.

45. Not all work and not all play, that’s the recipe for a happy and successful college career. These students are taking time out to stage a turtle race. Tastes vary. Perhaps you would prefer a picnic, a game of softball, a ride on a tandem bike, or just a simple nap?

46. A generation ago college students would have hooted at the very idea of a hootenanny (**American College Dictionary**, 1948, didn’t carry the word). As on campuses all over America, the hootenanny is a popular and swingin’ affair. The banjo is back and so is the dulcimer and so are many fine old folk tunes. If you’re wondering about that instrument, bring it!

47. A delegation from AF ROTC calls upon

President Delyte W. Morris to present him with tickets to the upcoming “Revue in Blue,” staged annually by the AF ROTC. The revue consists of talent from members of the cadet corps and the Angel Flight, coed singing group attached to the corps. The following night the Military Ball is held.

48. It takes a trophy to bring about smiles like these. Winners in the All-School Theta Xi Variety Show. The winter quarter show features only the best group and individual acts. During intermission the Service to Southern Illinois University awards are presented to two outstanding students in recognition of their service.

49. Members of the Southern Players getting ready to tour American army bases in the North Atlantic sponsored by the American Education Theater Association in association with the USO. The players performed **Born Yesterday**. The month-long tour took them to Labrador, Newfoundland, Iceland, and to within the Arctic Circle in Greenland.

50. Small fry reacting variously to what the Southern Players are doing on stage. Every fall the Department of Theater sends a troupe of Southern Players on the road to perform an adult and a children’s play. The tour though preponderantly in southern Illinois has taken the troupe to northern Illinois and Michigan. It’s possible you recognize someone in this picture.

51. National Collegiate Championship in gymnastics, 1964, Southern Illinois University’s first national university division title. The title was especially sweet as the Salukis had finished second in the three previous years. College division championships were won in tennis, golf, and baseball. The University is consistently a “powerhouse” in track, swimming, and wrestling as well.

52. This is the kind of form that has made Southern Illinois University gymnasts famous and brought the school the national championship. The University now attracts top high school gymnasts from all over the United States.

53. A saluki cager dunks one in the closing minutes of the last basketball game played in the Men’s Gym. Basketball games are now played in the new Arena under the 300-ft. diameter dome, seating capacity 11,000. Saluki



basketball teams consistently rank in the Top Ten small college ratings and finish high in the NCAA college division tournament at Evansville, Indiana.

54. The women's gymnastics program though only introduced recently at the University has already produced some of the best women gymnasts in the country. Proof of the popularity of the sport with the student body is the filled bleachers in the Men's Gym. Maybe that daring young man will turn out to be a daring young coed on the flying trapeze.

55. One of the highlights of the summer quarter is the performance of a Broadway musical. Among musicals produced have been **Oklahoma**, **South Pacific**, **Most Happy Fella**, **Pajama Game**, and **Music Man**. Southern Illinois University was among the first amateur groups to perform **My Fair Lady** after its release.

56. The marching Saluki Band big brass give out with the big sound during half-time festivities while a majorette synchronizes her actions with six other majorettes. Saluki band uniforms vary, depending on the section of the band. Majorette uniforms vary too but are in harmony with the band uniforms.

57. Jazz drummer Dave Black, backed up by the Marching Saluki trumpeters, puts on a dazzling exhibition during the half-time entertainment at a night football game. The University presently has no league affiliation in football, but the schedule finds the Salukis facing teams from eight states, ranging from Texas to Michigan.

58. We can't tell if this coed is pleased or displeased. However, it is obvious she is making her sentiments known. And that's why we have cheering sections and cheer leaders—so you won't just sit there!

59. Homecoming: decorations, coronation, concert, play, parade, bands, floats, football game, stage show with nationally known comic and/or musical group, and, of course, the homecoming dance in the ballroom with a Big Name Band.

60. Like these two sorority sisters, you never know what you might be doing—or when—in preparing a float for the Homecoming parade or decorations for the sorority house. But we feel reasonably safe in predicting you will prob-

ably also be wearing a sweatshirt and Levi's. And one thing more. You will come to know the many uses for which chicken wire is most admirable.

61. When judges pick beauty queens these days they look for more than just pulchritude. It seems a lass must also be able to dance or play an instrument or emote a spate of lines from *The Bard*. This queenly contestant's talent ran to blues singing. Of course, pulchritude is definitely not a handicap.

62. Big Name entertainers are brought to the campus. Among the many in recent years were Charles Laughton, Johnny Mathis, Dick Gregory, Count Basie, Shelley Berman, Basil Rathbone, New Christy Minstrels, Josh White, Al Hirt, The Tijuana Brass, and—of course, the Smothers Brothers.

63. If you like to play, compose, or simply listen to music, you'll find ample opportunity to do any or all three, from soloing to playing with a full symphony orchestra, from informal singing with a quartet to formal participation in a glee club, from experimenting with mechanical sounds to submitting to the rigorous demands of grand opera.

64. There is no doubt that campus life has become more informal, especially in matters sartorial. The saddle sport shoe has given way to the sandal, the pump to the thong and flat, the long, full skirt to something considerably less than full and long, the tux to the sport jacket. But it's still possible to be strictly formal with tails and tie, as is this young man on his way to a concert—to sing.

65. Group of students rehearsing a reading for the recently activated Interpreters Theater. They perform before campus, community, and even area organizations. Readings range from poetry to prose, from comedy to tragedy. Sometimes the readers are accompanied by jazz musicians or even dancers.

66. A dozen red roses, a crown, and the title of Queen, they are all yours if you have the talent—and the pulchritude. The University has had perhaps more than its share of contenders for Miss Illinois and Miss America. We have no intention of reducing this share if we can help it.



67. Some idea of the scope of the student work program is found in these figures: on the Carbondale Campus alone over 4,000 students work at 166 different jobs; average earnings range between \$650 and \$700; 1,400 were employed part-time by area employers. **The University believes that the academically capable, financially needy high school graduate should have an opportunity to develop his potentialities in an institution of higher learning because both the individual and society benefit from such an educational program.**

68. Student editor of the **Daily Egyptian**, student newspaper on the Carbondale Campus, editing a piece of copy turned in by a student reporter. Experience can be gained in every phase of journalism, from reporting to editing, from selling ads to reviewing plays, from interviewing a national figure to lampooning with a cartoon.

69. At Southern Illinois University is perhaps one of the most extensive student work programs in all America. A random sampling shows students working as: model, tutor, trailer court manager, projectionist, taxidermist, library clerk, typist, mail carrier, meat carver, bus driver, sign painter, and cashier.







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# Southern Illinois University Bulletin

# Contents

University Calendar .....	iii
Registration Calendars .....	iv
GENERAL INFORMATION .....	1
Guaranteed Center Schedules .....	1
Admission .....	1
Social Security Number .....	2
Required Tests .....	2
Advisement .....	2
Required Physical Examinations .....	3
Registration .....	3
New Students .....	3
Re-Entering Students .....	4
Current Students, Edwardsville Campus .....	4
Current Students, Carbondale Campus .....	4
Payment of Fees .....	4
Fees for a Regular Quarter .....	5
Academic Load .....	5
Prerequisites .....	6
Auditing of Courses .....	6
Registering for and Dropping Courses .....	6
Changing Fee Status .....	7
Withdrawal from School .....	7
Cancellation of Registration .....	7
Personal Data Changes .....	7
Hospitalization .....	8
SCHEDULE OF CLASSES .....	9
Explanation of the Schedule .....	9
Final Exam Schedule .....	11
Fall Classes .....	13

# University Calendar, 1967-1968

## *Fall Quarter, 1967*

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Vacation	Tuesday, 10:00 P.M.–Monday 8:00 A.M., November 21–27
Final Examinations	Monday–Saturday, December 11–16

## *Winter Quarter, 1968*

Quarter Begins	Tuesday, January 2 (4:30 P.M.)
Final Examinations	Monday–Saturday, March 11–16

## *Spring Quarter, 1968*

Quarter Begins	Monday, March 25 (4:30 P.M.)
Memorial Day Holiday	Thursday, May 30
Final Examinations	Monday–Saturday, June 3–8
Commencement (Carbondale)	Friday, June 7
Commencement (Edwardsville)	Saturday, June 8



# Registration Calendars

## *Fall Quarter, 1967*

### *EDWARDSVILLE CAMPUS*

Registration will be held in the Enrollment Office, 1302 Peck Classroom Building.

- June 26–Sept. 20    General Studies Advisement, by appointment (call General Studies Office)
- July 31–Aug. 29    Registration. Mon.–Fri. 8:00–11:30 A.M., 1:00–3:00 P.M.; Sat. 8:00–11:00 A.M.
- Sept. 6–16    Registration. Mon.–Fri. 8:00 A.M.–6:30 P.M.; Sat. 8:00 A.M.–2:00 P.M.
- Sept. 17–19    Orientation. No registration.
- Sept. 20    Central registration. 8:00 A.M.–6:30 P.M.

### *ALTON CENTER*

Registration will be held in the Student Union.

- Aug. 7–18    General Studies Advisement, by appointment (before August 5, call Alton General Office; after August 5, call Alton General Studies Office)
- Sept. 14, 15, 18, 19
- Aug. 14–18    Registration. 8:00–noon, 1:00–7:00 P.M.
- Sept. 18–19    Central registration. 8:00 A.M.–8:00 P.M.

### *EAST ST. LOUIS CENTER*

Registration will be held in ESL 101c.

- Aug. 21–Sept. 1    General Studies Advisement, by appointment (Call East St. Louis General Studies Office)
- Sept. 14, 15, 18, 19
- Aug. 28–Sept. 1    Registration. 8:00–noon, 1:00–7:00 P.M.
- Sept. 18–19    Central registration. 8:00 A.M.–8:00 P.M.

### *ALL LOCATIONS*

- Sept. 20    Evening classes (4:30 P.M. or later) begin.
- Sept. 21    Day classes begin.
- Sept. 26    Last day to make program change involving the adding of a class.
- Oct. 3    Last day for refund of fees.
- Oct. 17    Last day to withdraw from class without receiving a grade.
- Nov. 28    Last day to change from credit to audit.
- Dec. 11–16    Last day to withdraw from a class.  
Final examinations.

# General Information

## 1

THIS BULLETIN contains the schedule of classes to be offered at the Edwardsville Campus and the Alton and East St. Louis centers for the fall quarter of the 1967-68 school year. It also provides information relative to advisement and registration, fees, and allied information.

The Edwardsville Campus provides a full schedule of class offerings for day and evening students. Freshman and sophomore courses are scheduled for day and evening students at the Alton and East St. Louis centers.

### *GUARANTEED CENTER SCHEDULES*

A new program of Guaranteed Schedules for the centers has been established. Certain courses and sections at the centers are guaranteed on schedules extending through the fall, winter, and spring quarters. These classes will not be cancelled; they are coordinated to offer a variety of full-time academic programs for the incoming freshman as a day student, and they permit efficient progress for the new freshman evening student. The Guaranteed Center Schedules permit planning a full year's schedule before fall registration.

Classes at the centers marked with a ★ in the schedule are part of this program. For details concerning the full year's schedules, see the separate brochure for each center.

### *ADMISSION*

Inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office at Edwardsville. Applications for admission are accepted at any time during the calendar year but should be initiated at least 30 days prior to the start of the quarter which the student plans to attend.

A student must be officially admitted to the University before registration for classes will be permitted. Students who have not completed the admission requirements by the first day of the quarter will not be permitted to register. A student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

## *S O C I A L   S E C U R I T Y   N U M B E R*

Each student seeking admission to the University will need to present a social security number for identification purposes. Any local social security office can provide assistance in obtaining a number or replacing a lost card. At Alton the social security office is at 1623 Washington Street; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment Office, 111 West Vandalia, provides social security information.

## *R E Q U I R E D   T E S T S*

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in March, April, and June. Information and application blanks are normally available through the high school guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores, which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

## *A D V I S E M E N T*

The advisement system requires all new students to have initial advisement through the General Studies Advisement Office. These offices are maintained at each of the centers for the convenience of the student. Freshmen and sophomores will continue to be advised each quarter prior to registration. Following the student's declaring a major (between reaching 64 and 96 hours of credit), the student is assigned to an adviser in his concentration area. Each student is required to declare a concentration upon achieving 96 hours of credit. Probationary students are also required to receive advisement prior to registration.



Graduate students, both classified and unclassified, must have their schedule approved at the Graduate Office before registering.

All students should arrange to have advisement early to be sure their schedules will be approved before their registration.

## **REQUIRED PHYSICAL EXAMINATIONS**

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.

## **REGISTRATION**

Students may register at Edwardsville for classes at any location (see Edwardsville Registration Calendar, p. iv). Students wishing classes at the Alton or East St. Louis Centers, or at a Center and at Edwardsville, may register at that Center during the periods listed on the applicable Registration Calendar. All General Studies students are required to have approval of their schedule by the General Studies Advisement Office.

During the registration process the student goes to the enrollment office where the assignment is made to specific sections of the courses he is to take.

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class.

## **NEW STUDENTS**

Students entering the University for the first time are permitted to register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

Dates for new undergraduate students, freshmen and transfer, will be selective ones in which the students are asked to come to the campus on specific registration dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted. Appointments for registration will be mailed from the Registrar's Office.

New graduate students after advisement may register during the registration period from July 31 through August 29 and September 6-16. Arrangements should be cleared with the Graduate School to assure that the appropriate adviser will be available before coming to the campus.

## *RE-ENTERING STUDENTS*

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to register during the periods outlined in the Registration Calendar. Readmission procedures must be completed prior to registration.

### *CURRENT STUDENTS, EDWARDSVILLE CAMPUS*

For admittance to registration students previously enrolled must present their Southern Illinois University ID cards. No one will be permitted to register without an ID card. Each student currently registered in the University will be continued in his present course of study unless a change of concentration is made. A change of concentration is initiated with the chief academic adviser. The change should be made at the time of advisement; the registrar's copy of the change form should accompany the student's registration. A change of concentration made after a registration has been processed will not be reflected in the student's record until the next registration.

Upperclass students who have declared a concentration and who are currently registered in the University may be self-advised for registration purposes. Academic advisement is available and is very desirable. The student should prepare his desired program of classes at each registration period and process through the sectioning area of the enrollment office in accordance with the time of his appointment in order to best achieve the desired schedule of classes and time periods.

### *CURRENT STUDENTS, CARBONDALE CAMPUS*

A student currently enrolled in and attending classes on the Carbondale Campus who desires to register on the Edwardsville Campus will initiate his registration at the sectioning area of the enrollment center in Edwardsville in accordance with the registration calendar except that he may register on the first day of the quarter. Each student will complete the intra-university transfer data form to secure information necessary for the Edwardsville data processing center preparation of registration materials. The student who registers on the first day of the quarter should present his most recent grade report to confirm scholastic eligibility to register.

For the purpose of advisement, the student may wish to have a copy of his transcript sent to the Edwardsville Campus prior to registration.

## *PAYMENT OF FEES*

All fees are payable at the time of registration. Upon payment of fees, the fee statement and receipt card will be stamped by the Business Office and returned to the student as a fee receipt. The card should be carried at all times. It serves as official authorization to attend

classes as scheduled and must be presented to obtain books and activity cards and to process program changes.

Students unable to pay fees at the time of registration may secure short-term loans from the Student Work and Financial Assistance Office. This must be done before registering.

### *F E E S   F O R   A   R E G U L A R Q U A R T E R*

The University reserves the right to change fees and to have the change go into effect whenever the proper authorities so determine. Under the current fee schedule, Illinois undergraduate students taking more than 8 hours pay the following regular fees:

Tuition .....	\$42.00
Student Activity Fee .....	10.50
University Center Fee .....	5.00
Book Rental Fee .....	8.00
Student Welfare and Recreation Fund .....	15.00
	<hr/> \$80.50

Out-of-state students will pay an additional tuition of \$130 if taking more than 8 hours and an additional \$65 if taking 8 hours or fewer.

An Illinois undergraduate taking 8 or fewer hours will pay half tuition and book rental, will have an option of paying the activity fee, and will pay the full University Center fee. Once an option has been made by a student at the time of registration as to whether or not to pay the activity fee, such option is irrevocable. A part-time student, then, will pay either \$30 or \$40.50.

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status. Prior to registration this student will go to the Student Work and Financial Assistance Office to secure certification.

### **ACADEMIC LOAD**

The normal class load is 16 quarter hours for undergraduate students and 12 quarter hours for graduate students. The maximum load for both is 18 hours. A student with a 4.25 average or above for the preceding quarter may be allowed by the chief academic adviser or by the dean of his division to take as many as 21 hours. In no case may a student carry or be credited with more than 21 hours in any quarter. A student on probation may not take more than 14 hours.

A person may not register for more than 8 hours if he is employed full time.

The Selective Service System requires a minimum of 12 hours to qualify for a student deferment. There is a further requirement that he complete 48 hours each year.

The National Defense Education Act requires a minimum of 12 hours to qualify for a student loan.



## PREREQUISITES

Students are responsible for checking course prerequisites in the undergraduate and graduate catalogs and in this class schedule. Those who do not have specific prerequisites for a course may register for it only if they have had a comparable course or have written consent of the instructor.

## AUDITING OF COURSES

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter.

## REGISTERING FOR AND DROPPING COURSES

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program adjustment be approved permitting registration in that class. A student is officially registered only for those courses and sections appearing on his registration cards. Changes can be made only after fees are paid and must be made through an official program change.

A student desiring to make a program change must secure approval of his adviser. He will then go to the Enrollment Center. A student at East St. Louis or Alton may initiate his request to drop a course by going to the General Office.) He is required to present his fee receipt program card and must complete the following procedure. (1) After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. (2) The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. (3) A student has not completed his program change until he presents it to the Enrollment Center. **NO CHANGE IS OFFICIAL UNTIL THE PRECEDING PROCEDURE IS COMPLETED.**

A student who finds it necessary to make an adjustment to his program by adding or dropping a course may do so during normal office hours at the Edwardsville Enrollment Office. (No changes will be made on the first day of the quarter.) A program adjustment must be made to

drop or add a course. A student may not drop a course merely by stopping attendance. Failure to officially drop a course may result in academic penalty.

## **CHANGING FEE STATUS**

Students making program changes which result in their changing from part-time fee status to full-time fee status will be assessed additional tuition and fees. Students changing from full-time fee status to part-time fee status may apply for full refund of the student welfare and recreational facilities building trust fund fee plus a partial refund of their tuition and book rental fee (ACTIVITY FEE IS NOT REFUNDABLE) provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendar on page iv.

## **WITHDRAWAL FROM SCHOOL**

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who registers and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

## **CANCELLATION OF REGISTRATION**

A registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of Student Affairs.

## **PERSONAL DATA CHANGES**

Changes in personal data should be reported promptly. Types of change and method of reporting are:

1. ADDRESS CHANGES. Should be reported immediately either at the time of registration or at the Enrollment Office.

2. NAME CHANGES. Should be made at the Enrollment Office. Verification is required.
3. MARITAL STATUS CHANGES. Should be made at the Enrollment Office.
4. LEGAL RESIDENCE CHANGES (whether an Illinois or out-of-state resident.) Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

## HOSPITALIZATION

Blue Cross and Blue Shield In-hospital Insurance is offered to all students paying the activity fee. Cost is \$5.60 per quarter for single and \$14.70 per quarter for family plan. This is available at the time of registration.



# Schedule of Classes

## 2

*Except for the Guaranteed Center Schedules, the University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.*

### EXPLANATION OF THE SCHEDULE

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:

**Bold-Face Line:** The course's identification number is followed by the number of quarter hours of credit and the descriptive title. Following the title, a dotted line separates the title from the prerequisite, if any, which appears at the right-hand end of the line and may continue to the second line.

**Light-Face Lines:** The first column lists the section numbers (first digit always 0) for classes offered at Edwardsville; the second lists sections (first digit always 2) for classes offered at Alton; the third lists sections (first digit always 4) offered at East St. Louis. Following each section number are the time the class begins (between 7:00 A.M. and 4:20 P.M. for daytime classes) and the time it ends. The section number of each evening class has the letter E prefixed. A ★ indicates a section which is part of the Guaranteed Center Schedule and is not subject to cancellation. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

- 000-099 Courses not properly falling in the following categories
- 100-199 For freshmen
- 200-299 For sophomores
- 300-399 For juniors and seniors
- 400-499 For seniors and graduate students
- 500-600 For graduate students only

Students registering for courses listed as "Arranged" should consult the instructor indicated, or the dean of the division if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

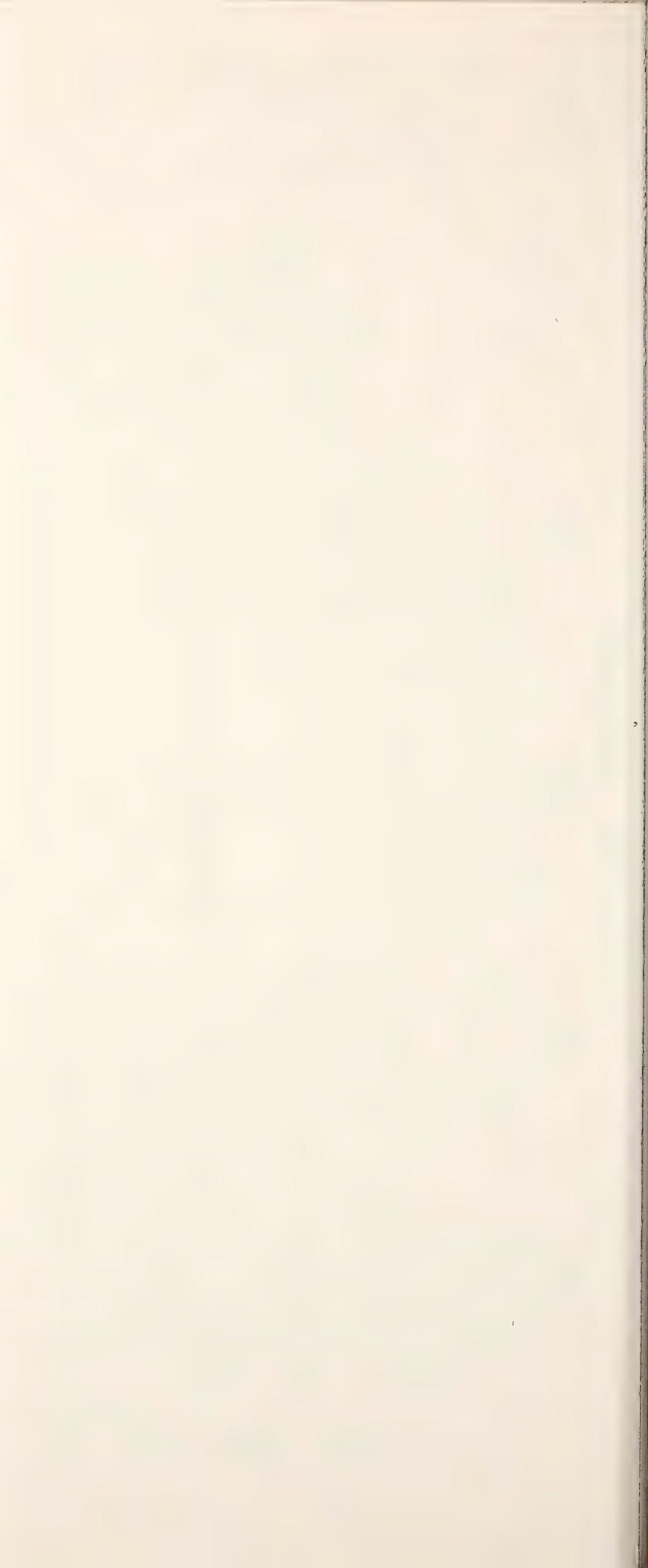
- ANA —Annex A—Alton
- CB —Communications Bldg.—Edwardsville
- ESL —East St. Louis Center
- Gym —Gymnasium—Alton

HUM	—Humanities Building—Alton
LB	—Lovejoy Memorial Library— Edwardsville
PB	—John Mason Peck General Classroom Building—Edwardsville
SCI	—Science Building—Alton
SL	—Science Laboratory Building— Edwardsville
397	—Cartography Laboratory—East St. Louis
UC	—University Center—Edwardsville
Wagner	—Wagner Building—Edwardsville

Dec. 11-16, 1967

	Mon. Dec. 11	Tues. Dec. 12	Wed. Dec. 13	Thurs. Dec. 14	Fri. Dec. 15	Sat. Dec. 16
8:00 to 9:40	All classes beginning at 8:30, except Tu and/or Th only.	Classes beginning at 8:30 Tu and/or Th only	Classes beginning at 9:30, Tu and/or Th only	All classes beginning at 9:30, except Tu and/or Th only		At regular class sessions
10:00 to 11:40	Classes beginning at 10:30 Tu and/or Th only	All classes beginning at 11:30, except Tu and/or Th only	All classes beginning at 10:30, except Tu and/or Th only	Classes beginning at 11:30, Tu and/or Th only	Make-up	
12:20 to 2:00	All classes beginning at 1:30, except Tu and/or Th only	All classes beginning at 12:30, except Tu and/or Th only	Multiple-Section Block (English) See Announcement	Classes beginning at 1:30 Tu and/or Th only	Classes beginning at 12:30 Tu and/or Th only Make-up	
2:20 to 4:00	Classes beginning at 2:30 Tu and/or Th only	Classes beginning at 3:30 Tu and/or Th only	All classes beginning at 3:30, except Tu and/or Th only	All classes beginning at 2:30, except Tu and/or Th only	Make-up	
Evening Classes	At regular sessions					





Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			

## MAN'S PHYSICAL ENVIRONMENT AND BIOLOGICAL INHERITANCE (GSA)

**101a-5 Introduction to Physical Science** ..... **GSD 106 or satisfactory score on placement test**

Student enrolls in lecture and one lab.

(Lab and Friday lecture meet every other week.)

Lect EA	5:30-6:20	MTuWThF	SL 1105	Slotboom
Lab E001	6:30-8:20	M	SL 1218	
Lab 002	3:30-5:20	M	SL 1218	
Lab 003	1:30-3:20	Tu	SL 1218	
Lab 004	3:30-5:20	Tu	SL 1218	
Lect B	9:30-10:20	MTuWThF	SL 1105	Hakeem
Lab 005	1:30-3:20	W	SL 1218	
Lab 006	3:30-5:20	W	SL 1218	
Lab 007	1:30-3:20	Th	SL 1218	
Lab 008	3:30-5:20	Th	SL 1218	
★Lect C	8:30-9:20	MTuWThF	SCI 200	Zurheide
Lab 201	1:30-3:20	Tu	SCI 007	
Lab 202	1:30-3:20	Th	SCI 007	
★Lab 203	9:30-11:20	Th	SCI 007	
★Lect D	8:30-9:20	MTuWThF	ESL 115	Shaw
★Lab 401	9:30-11:20	Th	ESL 124	
Lab 402	1:30-3:20	Tu	ESL 124	
Lab 403	3:30-5:20	Tu	ESL 124	

**101b-3 Introduction to Physical Science** ..... **101a-3**

Student enrolls in lecture and one lab.

(Lab and Friday lecture meet every other week.)

Lect A	1:30-2:20	M W F	SL 1105	Boedeker
Lab 001	8:30-10:20	F	SL 1218	
Lab 002	10:30-12:20	F	SL 1218	
Lab 003	2:30-4:20	F	SL 1218	

**101c-3 Introduction to Physical Science** ..... **101b**

Lect A	3:30-4:20	Tu Th	SL 1105	Stallard
Lab 001	1:30-3:20	Tu	SL 1209	
Lab 002	1:30-3:20	Th	SL 1209	
Lab 003	1:30-3:20	M	SL 1209	
Lab 004	1:30-3:20	W	SL 1209	
Lab 005	3:30-5:20	M	SL 1209	
Lab 006	3:30-5:20	W	SL 1209	

**110a-4 The Earth and Its Environment** .....

001	8:30-9:20	MTuW	SL 1215	Collier
	8:30-10:20	Th	SL 1215	
002	10:30-11:20	MTuW	SL 1215	
	10:30-12:20	Th	SL 1215	
003	1:30-2:20	MTuW	SL 1215	Clements
	12:30-2:20	Th	SL 1215	
004	9:30-10:20	MTuW	SL 1215	Marlow
	8:30-10:20	F	SL 1215	
E005	6:30-8:20	M W	SL 1215	Marlow
006	11:30-12:20	MTuW	SL 1215	
	10:30-12:30	F	SL 1215	
★201	8:30-9:20	MTuW	ANA 110	Baker
	8:30-10:20	Th	ANA 110	
★401	8:30-9:20	MTuW	ESL 105	Gore
	8:30-10:20	Th	397-001	

**110b-4 The Earth and Its Environment** ..... **110a**

001	12:30-1:20	MTuW	SL 1215	Gore
	12:30-2:20	F	SL 1215	
E002	6:30-8:20	Tu Th	SL 1215	Gore

**201a-4 Man's Biological Inheritance** ..... **101 or 110**

Lect A	11:30-12:20	M W F	PB 1410	N. Parker
Lect EB	4:30-5:20	M W F	SL 1105	
Lab 001	8:30-10:20	M	SL 2211	
Lab 002	11:30-1:20	M	SL 2211	
Lab 003	1:30-3:20	M	SL 2211	
Lab 004	3:30-5:20	M	SL 2211	
Lab 005	8:30-10:20	W	SL 2211	
Lab 006	11:30-1:20	W	SL 2211	
Lab 007	1:30-3:20	W	SL 2211	
Lab 008	3:30-5:20	W	SL 2211	
Lab 009	8:30-10:20	F	SL 2211	
Lab 010	11:30-1:20	F	SL 2211	
Lect EC	6:30-7:45	Tu Th	SL 3225	

## 14 GENERAL STUDIES AREA A (GSA)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
201a-4	Man's Biological Inheritance			101 or 110
Lab E011	8:00-9:40	Tu	SL 2211	
Lab E012	8:00-9:40	Th	SL 2211	
312-3	Conservation of Natural Resources			
001	8:30-9:20	M W F	PB 0306	Yarbrough
002	10:30-11:20	M W F	PB 0306	Clements
003	1:30-2:20	M W F	PB 0306	Kircher
E004	8:30-9:45	M W	PB 0306	Yarbrough
330-3	Weather			
E001	9:30-10:20	M WThF	PB 0306	Kazeck
002	11:30-12:20	M WThF	PB 0306	Guffy
E003	6:30-8:20	Tu Th	PB 0306	Guffy
331-3	Climate			
001	12:30-1:20	M WThF	PB 0306	Marlow
356-3	Astronomy			
001	2:30-3:20	M W F	SL 0226	Shaw
363a-3	Philosophy of Science			Junior standing
001	9:30-10:20	M W F	PB 0406	Barker
002	11:30-12:20	M W F	PB 3404	Barker
363b-3	Philosophy of Science			Junior standing
001	1:30-2:20	M W F	PB 3404	Barker
365-3	Human Origins			Junior standing
001	3:30-5:15	Tu Th	PB 1307	

### MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)

101b-4	Survey of Western Tradition			
001	8:30-9:20	MTuWTh	LB 0044	Steckling
002	10:30-11:20	TuWThF	PB 1402	Pearson
003	12:30-1:20	TuWThF	PB 1402	Haas
004	2:30-3:20	MTuWTh	SL 1105	Astour
★201	9:30-10:20	MTuW F	ANA 104	Wurtz
★E202	8:30-10:20	M W	SCI 201	
★401	9:30-10:20	MTuW F	ESL 115	Martin
E402	6:30-8:20	M W	ESL 106	Martin
101c-4	Survey of Western Tradition			
001	9:30-10:20	MTuWTh	PB 2412	
002	11:30-12:20	TuWThF	PB 2412	Kimball
003	1:30-2:20	MTuWTh	PB 2412	
103a-4	Sociology-Economics			
001	3:30-4:20	TuWThF	PB 1402	Grubb
002	12:30-1:20	MTuWTh	SL 1105	Remmling
★201	9:30-10:20	MTuW F	ANA 108	Campbell
★401	9:30-10:20	MTuW F	ESL 104	Grubb
★E402	8:30-10:20	Tu Th	ESL 104	
103b-4	Sociology-Economics			
Lect A	10:30-11:20	MTu Th	SL 1105	Cohen
001	10:30-11:20	W	PB 2405	Price
002	10:30-11:20	W	PB 2306	Carbaugh
003	10:30-11:20	W	PB 0312	Godoy
004	10:30-11:20	W	PB 2410	
E005	6:30-8:20	M W	PB 3305	
E201	6:30-8:20	Tu Th	ANA 108	Mulholland
E401	6:30-8:20	M W	ESL 115	
201a-4	The Individual and His Cultural Environment			101 or 103
001	9:30-10:20	TuWThF	PB 1410	J. Collins
002	11:30-12:20	MTuWTh	SL 1105	Schusky
201	9:30-10:20	MTuWTh	ANA 100	Voget
E401	8:30-10:20	Tu Th	ESL 105	Hayes
201c-4	The Individual and His Cultural Environment			101 or 103
001	12:30-2:20	M W	LB 0044	McCall
002	3:30-5:20	M W	LB 0044	
201	2:30-4:20	Tu Th	ANA 104	Engbretson
E401	6:30-8:20	Tu Th	ESL 220	
203a-4	American Politics in the World Environment			101 or 103
001	9:30-10:20	MTuWTh	PB 0307	Maier
002	10:30-11:20	MTuWTh	PB 0307	McHargue
003	11:30-12:20	MTuWTh	PB 0312	Mace
004	12:30-1:20	MTuWTh	PB 0307	
005	2:30-3:20	MTuWTh	PB 0312	Feeney
E006	6:30-8:20	M W	PB 0312	Kerr
007	3:30-4:20	MTuWTh	PB 0312	Dawson
E201	6:30-8:20	M W	ANA 104	Glaser



Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
E401	6:30–8:20	Tu Th	ESL 115	Dawson	
203b–4	American Politics in the World Environment				
001	8:30–9:20	M WThF	PB 1410	Koepeke	
002	10:30–12:20	MTuW F	PB 1410	Kircher	
003	1:30–2:20	MTuW F	PB 1412	Lossau	
E004	6:30–8:20	M W	PB 1412		
300a–3	History of the United States				
001	8:30–9:20	Tu ThF	PB 2412	Branz	
002	10:30–11:20	M W F	PB 2412	McCurry	
003	12:30–1:20	M WTh	PB 2412	Millett	
004	2:30–3:20	M WTh	PB 2412	Millett	
E005	6:30–7:45	Tu Th	PB 2412	Branz	
300b–3	History of the United States				
001	11:30–12:20	M W F	PB 0314	Riddleberger	
002	1:30–2:20	M W F	PB 0314	Wilton	
300c–3	History of the United States				
001	9:30–10:20	M WTh	PB 0314	Weiss	
311–3	Economic Development of the United States		101c or 211c		
E001	6:30–7:45	Tu Th	PB 0304	Price	
312–3	Comparative Economic Systems			211c	
001	10:30–11:45	M	PB 3303	Hashimi	
	10:30–11:45	Th	PB 1410	Hashimi	
331–3	The American Educational Systems				
001	10:30–11:45	M W	PB 0411	Lee	
002	1:30–2:45	M W	PB 0408	Lee	
003	1:30–2:45	M W	PB 1306	Darnell	
E004	5:30–8:20	M	PB 0408		
005	10:30–11:45	Tu F	PB 2304	Goodwin	
E401	5:30–8:20	Th	ESL 104		
341–3	Marriage				
001	10:30–11:45	Tu Th	PB 3303	Taylor	
345–3	Introduction to American Foreign Policy				
001	2:30–3:45	M W	PB 2405	Glaser	
354–3	Industrial Economic Geography				
001	9:30–10:20	M W F	PB 1412	Lossau	

### MAN'S INSIGHTS AND APPRECIATIONS (GSC)

151–3	Introduction to Poetry			GSD 101b	
001	9:30–10:20	MTu Th	PB 2415		
002	10:30–11:20	MTu Th	PB 2415		
003	11:30–12:20	MTu Th	PB 2415		
004	1:30–2:20	MTu Th	PB 2415		
005	2:30–3:20	MTu Th	PB 2415		
E201	6:30–7:45	M W	HUM 107		
E401	6:30–7:45	Tu Th	ESL 112		
155–5	Introduction to Art				
001	9:30–10:20	MTuWThF	LB 0044	Altwater	
002	10:30–11:20	MTuWThF	LB 0044	Milovich	
★201	10:30–11:20	MTuWThF	ANA 104	Freund	
★E401	6:00–8:20	Tu Th	ESL 130	Kutzik	
156–5	Introduction to Music History Literature				
001	11:30–12:20	MTuWThF	PB 1402		
★401	10:30–11:20	MTuWThF	ESL 212		
157–5	The Dramatic Media: Theater, Cinema, and Television				
001	1:30–2:20	MTuWThF	PB 1402	Kluth	
★E201	6:00–8:20	M W	SCI 200	Smith	
158–5	The Fine Arts				
001	2:30–3:20	MTuWThF	PB 1402		
252–4	Logic			Sophomore standing	
Lect A	1:30–2:20	Tu ThF	PB 1410	Glossop	
001	1:30–2:20	M	PB 0307	Glossop	
002	2:30–3:20	M	PB 0309	Glossop	
003	2:30–3:20	F	PB 0307	Glossop	
Students registered for Sect. 001, 002, or 003 also attend Lect A.					
004	8:30–9:20	MTu ThF	PB 0309		
005	9:30–10:20	MTu ThF	PB 0412		
006	10:30–11:20	MTu ThF	PB 0412		
007	11:30–12:20	MTu ThF	PB 2403		
008	12:30–1:20	MTu ThF	PB 0413		
009	12:30–1:20	MTu ThF	PB 2304		
010	2:30–4:20	Tu Th	PB 0309	Morgan	
E201	8:30–10:20	M W	ANA 110	Morgan	
E401	8:30–10:20	M W	ESL 112	Murdoch	

## 16 GENERAL STUDIES AREA C (GSC)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton	E. St. Louis	Time		
<b>253-4 Literature Masterpieces of Antiquity</b>				<b>151</b>
001	8:30-9:20	MTu ThF	PB 0406	
002	9:30-10:20	MTu ThF	PB 0408	
003	10:30-11:20	MTu ThF	PB 0408	
004	11:30-12:20	MTu ThF	PB 0408	
005	12:30-1:20	MTu ThF	PB 0408	
006	1:30-2:20	MTu ThF	PB 0309	
E201	6:30-8:20	M W	SCI 002	
E401	8:30-10:20	M W	ESL 221	
<b>254-4 Philosophical Masterpieces</b>				<b>Sophomore standing</b>
001	10:30-11:20	MTu ThF	PB 3404	Corr
002	11:30-12:20	MTu ThF	PB 0409	Corr
003	12:30-1:20	MTu ThF	PB 3404	
004	1:30-2:20	M F	PB 2403	
	1:30-2:20	Tu Th	PB 0314	
005	3:30-4:20	MTu ThF	PB 2304	F. Marti
E201	6:30-8:20	M W	ANA 101	Morgan
E401	6:30-8:20	M W	ESL 112	Murdoch
<b>333-3 The Bible as Literature</b>				<b>253 or 254</b>
001	2:30-3:20	Tu ThF	PB 0411	Ades
<b>335-3 Studies in Short Fiction</b>				
001	1:30-2:45	Tu Th	PB 3409	
002	1:30-2:45	W F	PB 3409	
003	3:00-4:15	Tu Th	PB 3409	
004	3:00-4:15	W F	PB 3409	
<b>337-3 The English Language Heritage</b>				<b>253 or 254</b>
001	12:30-1:20	Tu ThF	PB 1414	Wood
<b>339-3 Classical Mythology and Its Influence</b>				<b>253 or 254</b>
001	1:30-2:20	Tu ThF	LB 0042	Drake
<b>354a-3 History of the Theater</b>				
001	12:30-1:20	M W F	PB 3315	Vilhauer
<b>360b-3 Arts and Ideals in Famous Cities</b>				<b>Junior standing</b>
001	2:30-3:20	M W F	PB 0314	F. Marti
<b>370a-3 American Art</b>				
001	11:30-12:20	M W F	LB 0044	Hilberry
<b>375a-3 Ethics</b>				<b>Junior standing</b>
001	10:30-11:20	Tu ThF	PB 1306	Glossop
002	1:30-2:20	Tu ThF	PB 1306	
E003	6:30-7:45	Tu Th	PB 3302	

## ORGANIZATION AND COMMUNICATIONS OF IDEAS (GSD)

<b>101a-3 English Composition</b>				
001	8:30-9:20	MTu ThF	PB 2415	
002	8:30-9:20	MTu ThF	PB 2414	
003	8:30-9:20	TuWThF	PB 2413	
005	9:30-10:20	MTu ThF	PB 2414	
006	9:30-10:20	MTu ThF	PB 3422	
007	9:30-10:20	TuWThF	PB 2413	
009	10:30-11:20	MTu ThF	PB 2414	
010	10:30-11:20	MTu ThF	PB 3422	
011	10:30-11:20	TuWThF	PB 2413	
012	11:30-12:20	MTu ThF	PB 2414	
013	11:30-12:20	MTu ThF	PB 3422	
014	11:30-12:20	TuWThF	PB 2413	
015	12:30-1:20	MTu ThF	PB 2414	
016	12:30-1:20	MTu ThF	PB 3422	
017	12:30-1:20	TuWThF	PB 2413	
018	1:30-2:20	MTu ThF	PB 2414	
019	1:30-2:20	MTu ThF	PB 3422	
020	1:30-2:20	TuWThF	PB 2413	
021	2:30-3:20	MTu ThF	PB 2414	
022	2:30-3:20	MTu ThF	PB 3422	
023	2:30-3:20	TuWThF	PB 2413	
024	3:30-4:20	MTu ThF	PB 2415	
025	3:30-4:20	MTu ThF	PB 2414	
026	3:30-4:20	TuWThF	PB 2413	
★201	8:30-9:20	MTu ThF	HUM 107	
★202	9:30-10:20	MTuW F	HUM 107	
★203	10:30-11:20	MTuW F	HUM 107	
★E205	6:30-8:20	M W	ANA 111	
★E206	6:30-8:20	Tu Th	HUM 107	
★E207	8:30-10:20	M W	HUM 107	
★E208	8:30-10:20	Tu Th	HUM 107	
★401	9:30-10:20	MTuW F	ESL 220	

Course No.—Hours Edw. Alton E. St. Louis	Descriptive Title Time	Days	Place	Instructor
★402	10:30–11:20	MTuW F	ESL 220	
★403	11:30–12:20	MTu ThF	ESL 220	
★E404	6:30–8:20	M W	ESL 220	
★E405	6:30–8:20	Tu Th	ESL 105	
★E406	8:30–10:20	M W	ESL 220	
★E407	8:30–10:20	Tu Th	ESL 220	
<b>101b–3 English Composition</b>				<b>101a</b>
001	8:30–9:20	MTu ThF	PB 3404	
002	10:30–11:20	MTu ThF	PB 3316	
003	11:30–12:20	MTu ThF	PB 3316	
004	12:30–1:20	MTu ThF	PB 3316	
005	1:30–2:20	MTu ThF	PB 3316	
006	2:30–3:20	MTu ThF	PB 3316	
E202	8:30–10:20	Tu Th	SCI 103	
E402	8:30–10:20	M W	ESL 222	
<b>103–3 Oral Communication of Ideas</b>				
001	8:30–9:20	M W F	PB 2409	
002	8:30–9:20	M W F	PB 3409	
003	9:30–10:20	M W F	PB 2409	
004	9:30–10:20	M W F	PB 3302	
005	10:30–11:20	M W F	PB 0413	
006	10:30–11:20	M W F	PB 2409	
007	11:30–12:20	M W F	PB 2409	
008	11:30–12:20	M W F	CB 0194	
009	12:30–1:20	M W F	PB 2409	
010	12:30–1:20	M W F	PB 3409	
011	1:30–2:20	M W F	PB 2409	
012	1:30–2:20	M W F	CB 0194	
013	2:30–3:20	M W F	PB 2409	
014	2:30–3:20	M W F	CB 0194	
015	11:30–12:45	Tu Th	PB 2409	
016	11:30–12:45	Tu Th	CB 2015	
017	1:15–2:30	Tu Th	PB 2409	
018	1:30–2:45	Tu Th	CB 0194	
019	2:30–3:45	Tu Th	PB 2409	
★E201	8:30–9:45	Tu Th	ANA 111	
★202	10:30–11:20	M W F	ANA 111	
★203	11:30–12:20	M W F	ANA 111	
★401	11:30–12:20	M W F	ESL 106	
★402	10:30–11:20	M W F	ESL 106	
<b>106–0 Intermediate Algebra</b>				
001	12:30–1:20	M WThF	SL 1224	
002	2:30–3:20	MTuWTh	SL 1224	
★E201	6:30–8:20	Tu Th	SCI 103	
★E401	6:30–8:20	M W	ESL 103	
<b>112a–4 Introduction to Mathematics</b>				<b>Satisfactory score on placement test and 1 year high school algebra</b>
001	11:30–12:20	MTu ThF	SL 0226	
002	2:30–3:20	MTu ThF	SL 1210	
★201	11:30–12:20	MTu ThF	SCI 103	
E202	6:30–8:20	M W	SCI 103	
★401	11:30–12:20	MTu ThF	ESL 222	
★E402	6:30–8:20	M W	ESL 224	
<b>112b–5 Introduction to Mathematics</b>				<b>GSA 112a–3</b>
001	8:30–9:20	MTuWThF	SL 1225	
401	9:30–10:20	MTuWThF	ESL 221	
<b>112c–3 Introduction to Mathematics</b>				<b>GSA 112b–3</b>
001	1:30–2:20	M W F	SL 2224	
E401	8:30–9:45	Tu Th	ESL 222	
<b>114a–5 College Algebra</b>				<b>High school intermediate algebra and plane geometry</b>
001	8:30–9:20	MTuWThF	SL 0226	
002	9:30–10:20	MTuWThF	SL 0226	
003	10:30–11:20	MTuWThF	SL 2224	
004	10:30–11:20	MTuWThF	SL 1225	Verderber
005	11:30–12:20	MTuWThF	SL 1225	Verderber
006	12:30–1:20	MTuWThF	SL 1225	
008	1:30–2:20	MTuWThF	SL 1224	
009	2:30–3:20	MTuWThF	SL 1225	
010	3:30–4:20	MTuWThF	SL 1225	
★E201	6:00–8:20	Tu Th	ANA 110	
202	10:30–11:20	MTuWThF	SCI 003	Gwillim
★203	11:30–12:20	MTuWThF	SCI 003	Gwillim
★401	11:30–12:20	MTuWThF	ESL 105	
E402	6:00–8:20	Tu Th	ESL 221	
<b>114b–3 College Algebra</b>				<b>114a–3</b>
001	12:30–1:20	M W F	SL 0226	



## 18 GENERAL STUDIES AREA D (GSD)

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					

114c-4	Trigonometry	High school intermediate algebra and plane geometry			
001		11:30-12:20	M WThF	SL 3225	
201		9:30-10:20	MTu ThF	SCI 003	Phillips
E202		6:30-8:20	Tu Th	SCI 003	Gwillim
114d-4	Statistics	114b			
001		11:30-12:20	MTu ThF	SL 1210	Ruthledge
002		1:30-2:20	MTu ThF	SL 1210	Ruthledge
003		8:30-10:20	M Th	PB 1414	Price
004		12:30-2:20	M Th	PB 0304	Schwier
E005		6:30-8:20	M W	PB 0304	Schwier
E201		6:30-8:20	Tu Th	SCI 002	Butler
E401		6:30-8:20	M W	ESL 104	
123a-3	Elementary French				
001		9:30-10:20	MTu Th	PB 3313	
002		9:30-10:20	MTu Th	PB 3315	
003		1:30-2:20	MTu Th	PB 3313	
E202		6:30-7:45	Tu Th	ANA 100	
★E401		6:30-7:45	M W	ESL 105	
126a-3	Elementary German				
001		11:30-12:20	MTu Th	PB 3313	
002		11:30-12:20	MTu Th	PB 3315	
003		12:30-1:20	MTu Th	PB 3313	
004		3:30-4:20	MTu Th	PB 3313	
★201		11:30-12:45	Tu Th	ANA 100	
E402		6:30-7:45	Tu Th	ESL 212	
126c-3	Elementary German				
001		2:30-3:20	MTu Th	PB 3313	
140a-3	Elementary Spanish				
001		10:30-11:20	MTu Th	PB 3313	
002		10:30-11:20	MTu Th	PB 3315	
003		3:30-4:20	MTu Th	PB 3315	
E202		6:30-7:45	M W	ANA 108	
★401		11:30-12:20	MTu Th	ESL 112	
140c-3	Elementary Spanish				
001		2:30-3:20	MTu Th	PB 0406	
144a-3	Elementary Italian				
★E201		6:30-7:45	Tu Th	ANA 101	
HEALTH AND PHYSICAL DEVELOPMENT (GSE)					
102-1	Physical Fitness (Men)				
001		1:30-2:20	M W	UC 1043	Moehn
002		2:30-3:20	M W	UC 1043	Moehn
401		1:30-2:20	M W	ESL 009	Brick
104f-1	Soccer (Men)				
001		1:30-2:20	Tu Th	UC 1043	Luedke
104n-1	Cross Country (Men)				
001		2:30-3:20	Tu Th	UC 1043	Moehn
104t-1	Touch Football (Men)				
001		2:30-3:20	Tu Th	UC 1043	Moehn
112-1	Basic Body Movement (Women)				
001		1:30-2:20	Tu Th	UC 1043	
114f-1	Soccer (Women)				
001		2:30-3:20	Tu Th	UC 1043	
114n-1	Field Hockey (Women)				
001		3:30-4:20	Tu Th	UC 1043	
115-1	Restricted Physical Education				
001		10:30-11:20	Tu Th	UC 1043	Moehn
117a-1	Square Dance				
001		11:30-12:20	M W	UC 1043	S. Carpenter
002		9:30-10:20	Tu Th	UC 1043	
117b-1	Folk Dance				
001		10:30-11:20	Tu Th	UC 1043	
002		1:30-2:20	Tu Th	UC 1043	S. Carpenter
117c-1	Social Dance				
001		9:30-10:20	M W	UC 1043	S. Carpenter
002		11:30-12:20	Tu Th	UC 1043	
003		2:30-3:20	Tu Th	UC 1043	S. Carpenter
117d-1	Beginning Contemporary Dance				
001		2:30-3:20	M W	UC 1043	
117e-1	Intermediate Contemporary Dance				
001		2:30-3:20	M W	UC 1043	
117f-1	Basic Rhythms				
001		10:30-11:20	M W	UC 1043	S. Carpenter
002		1:30-2:20	M W	UC 1043	
118a-1	Archery				
001		1:30-2:20	M W	UC 1043	

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
<b>118d-1 Bowling</b>				
001	8:30-9:20	M W	UC 0017	Showers
002	9:30-10:20	M W	UC 0017	Showers
003	10:30-11:20	M W	UC 0017	Showers
004	9:30-10:20	Tu Th	UC 0017	Showers
005	10:30-11:20	Tu Th	UC 0017	Showers
006	11:30-12:20	Tu Th	UC 0017	Showers
<b>118e-1 Golf</b>				
001	1:30-2:20	Tu Th	UC 1043	Brick
002	2:30-3:20	Tu Th	UC 1043	Brick
<b>118h-1 Tennis</b>				
001	10:30-11:20	Tu Th	UC 1043	Brick
002	11:30-12:20	Tu Th	UC 1043	Brick
<b>118i-1 Volleyball</b>				
001	1:30-2:20	Tu Th	UC 1043	Moehn
<b>118r-1 Stunts and Tumbling</b>				
E201	5:30-6:20	Tu Th	Gym 102	Luedke
E202	6:30-7:20	Tu Th	Gym 102	Luedke
<b>118s-1 Gymnastics</b>				
E201	6:30-7:20	Tu Th	Gym 102	Luedke
<b>118z-1 Recreational Sports</b>				
001	2:30-3:20	Tu Th	UC 1043	
<b>201-3 Healthful Living</b>				
001	3:30-4:20	M W F	SL 1105	Klein
E002	7:30-8:20	M W F	SL 1105	Luedke
003	12:30-1:20	M W F	PB 1410	Luedke
201	11:30-12:20	M W F	ANA 108	Moehn
401	11:30-12:20	M W F	ESL 104	Brick

## ACCOUNTING (ACCT)

<b>230-4 Accounting Principles</b>				<b>Sophomore standing</b>
001	12:30-2:20	Tu F	PB 2306	Donnalley
E002	8:30-10:20	Tu Th	PB 2306	Milles
E201	6:30-8:20	M W	ANA 100	Mains
E401	6:30-8:20	Tu Th	ESL 224	Dressel
<b>231-4 Financial Accounting Analysis</b>				<b>251a</b>
001	8:30-10:20	M Th	PB 2304	Nissing
E201	8:30-10:20	M W	ANA 100	Mains
E401	8:30-10:20	Tu Th	ESL 224	Dressel
<b>330-4 Managerial Cost and Budgeting</b>				<b>251b</b>
001	10:30-12:20	Tu F	PB 2306	Bedel
<b>331-4 Tax Accounting</b>				<b>251c</b>
001	8:30-10:20	Tu F	PB 2306	Donnalley
<b>341-4 Cost Accounting</b>				<b>251c</b>
001	8:30-10:20	M Th	PB 2405	Small
<b>351a-4 Accounting Theory and Problems I</b>				<b>251c</b>
001	10:30-12:20	M Th	PB 2405	Bedel
<b>351b-4 Accounting Theory and Problems II</b>				<b>351a</b>
E001	6:30-8:20	M W	PB 2306	Milles
<b>410-4 Accounting Concepts</b>				<b>MBA students only</b>
E001	6:30-8:20	M W	PB 1410	Nourallah
<b>442-4 Advanced Cost Accounting</b>				<b>341</b>
E001	8:30-10:20	M W	PB 1410	Nourallah
<b>456-4 Auditing</b>				<b>341, 351a or b</b>
001	10:30-12:20	M Th	PB 2306	Nissing

## AEROSPACE STUDIES (AS)

<b>301-3 Growth and Development of Aerospace Power</b>				<b>6 weeks field training or GMC</b>
001	9:30-10:20	M W F	PB 2403	Horvath
002	12:30-1:20	M W F	PB 2403	Horvath
003	2:30-3:20	M W F	PB 2403	Horvath
<b>350-2 Flight Regulations and Navigation</b>				<b>Consent of faculty chairman</b>
001	Arranged			Horvath

## ANTHROPOLOGY (ANTH)

<b>304-4 The Origins of Civilization</b>				
E001	6:30-8:20	Tu Th	PB 1306	Hayes
<b>400-4 Man and Culture</b>				
E001	6:30-9:30	Th	PB 0408	Vogel
<b>405-4 Social Anthropology</b>				
001	1:30-2:20	TuWThF	PB 0307	J. Collins
<b>508a-4 Pro-Seminar in Culture Anthropology</b>				
E001	6:30-8:20	Tu Th	SL 2220	Voget

## 20 APPLIED SCIENCE (AP S)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			

## APPLIED SCIENCE (APS)

101a-3	Graphics					
001		8:30-10:20	M W F	SL 1216	Bishop	
002		10:30-12:20	M W F	SL 1216	Bishop	
E003		6:30-9:20	M W	SL 1216	Bishop	
420-3	Digital Computers in Research				Math 225	
001		1:30-2:20	Tu ThF	CB 0186	Goering	
524a-3	Linear and Non-Linear Programming				B.S. in engineering, math, or natural science	
E001		8:30-9:45	M W	SL 1212	Hughs	
560a-4	Automatic Control Theory				B.S. in engineering, math, or natural science	
E001		6:30-8:20	M W	SL 1225		

## A R T (ART)

100a-5	Basic Studio					
001		8:30-10:20	MTuWThF	SL 0222	Kutzik	
002		10:30-12:20	MTuWThF	SL 0222	Richardson	
003		1:30-4:20	M W F	SL 0222	Milovich	
E004		6:30-9:20	M W F	SL 0222	Huntley	
202a-5	Intermediate Studio				Sophomore standing	
001		8:30-10:20	M W F	Wagner	Marcell	
		8:30-10:20	Tu Th	SL 0225	Richardson	
002		10:30-12:20	M W F	Wagner	Marcell	
		10:30-12:20	Tu Th	SL 0225	Smith	
225a-3	History of World Art				Junior standing	
001		12:30-1:45	Tu Th	LB 0044	Hilberry	
300a-4	Art Education					
001		12:30-2:20	M W F	SL 0209	Buddemeyer	
300b-4	Art Education				300a	
E001		5:30-8:20	Tu Th	SL 0209	Altwater	
305a-4	Advanced Ceramics				202	
001		3:30-5:20	MTuWTh	Wagner	Cannon	
310a-4	Painting				202	
001		10:30-12:20	MTuW F	SL 0218	Huntley	
312a-4	Advertising and Graphic Design I				202	
E001		6:30-10:00	Tu Th	SL 0225	Kemper	
325a-4	Studio				202	
001		Arranged			Buddemeyer	
325b-4	Studio				202	
001		Arranged			Buddemeyer	
325c-4	Studio				202	
001		Arranged			Buddemeyer	
358a-4	Prints				202	
001		8:30-10:20	MTuWTh	SL 0210	Smith	
365-4	Art Education in the Secondary Schools				Consent of instructor	
001		9:30-11:20	M W F	SL 0209	Buddemeyer	
393a-4	Sculpture				202	
001		1:30-3:20	MTuW F	Wagner	Marcell	
401-4	Research in Painting				310	
001		Arranged		SL 0218	Freund	
405-4	Studio in Sculpture				393	
001		1:30-3:20	MTuW F	Wagner	Marcell	
410-4	Research in Prints				358	
001		8:30-10:20	MTuWTh	SL 0210	Smith	
420-4	Research in Pottery				305	
001		Arranged		Wagner	Cannon	
460-4	Research in Art Education				Consent of instructor	
E001		7:30-9:20	M W	SL 0209	Altwater	
501-4	Seminar in Painting				401	
001		Arranged		SL 0218	Freund	
502-4	Seminar in Sculpture				405	
001		1:30-3:20	MTuW F	Wagner	Marcell	
511-4	Seminar in Prints				410	
001		8:30-10:20	MTuWTh	SL 0210	Smith	
520-4	Seminar in Pottery				420	
001		Arranged		Wagner	Cannon	
566-4	Research in Art Education				Consent of instructor	
001		Arranged			Altwater	

## BIOLOGY (BIOL)

301a-4	Concepts at the Cellular Level				GSA 201, Chem. 111	
Lect A		9:30-10:20	M W F	SL 3225		
Lab 001		12:30-2:20	Tu	SL 3218		



Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
Lab 002	2:30-4:20	Tu	SL 3218	
302a-5	Concepts at the Organism Level			GSA 201
Lect A	1:30-2:20	Tu Th	SL 0226	
Lab 001	12:30-2:20	M W F	SL 3210	
Lab 002	2:30-4:20	M W F	SL 3210	
303a-4	Concepts at the Population Level			GSA 201
Lect A	10:30-11:20	M W F	SL 3225	Frost
Lab 001	12:30-2:20	Th	SL 3218	Frost
Lab 002	2:30-4:20	Th	SL 3218	Frost
311-5	Applied Bacteriology			GSA 201
Lect A	12:30-1:20	M W F	SL 1210	Savostin
Lab 001	1:30-3:20	M W	SL 3218	Savostin
Lab 002	9:30-11:20	Tu Th	SL 3218	Savostin
390a-0	Undergraduate Biology Seminar			Junior standing
e001	4:30-5:20	W	SL 3225	
458-5	Functional Morphology of Vertebrates			302a
Lect A	9:30-10:20	Tu Th	SL 3225	R. Parker
Lab 001	9:30-11:20	M W F	SL 3210	
470-4	Field Botany			302c
Lect A	8:30-9:20	Tu Th	SL 3225	Keating
Lab 001	9:30-11:20	Tu Th	SL 3210	Keating
501-2	Research Orientation			
e001	4:30-6:20	Th	SL 3225	
504a-3	Instructional Innovation in Secondary School Biology			
e001	5:30-8:20	Tu	SL 3218	Kumler
590a-1	Graduate Biology Seminar			
e001	4:30-5:20	W	SL 2220	

## BUSINESS ADMINISTRATION (BA)

526-4	Managerial Economics			
e001	8:30-10:20	M W	PB 3303	L. Drake
550-4	Marketing Management			
e001	6:30-8:20	M W	PB 3303	Vincent

## BUSINESS COMMUNICATIONS (BC)

390-4	Business Communications			
001	12:30-2:20	M Th	PB 3303	Cox
002	12:30-2:20	Tu F	PB 3303	Cox
e003	6:30-8:20	M W	PB 1414	Cox

## BUSINESS EDUCATION (BSED)

201a-3	Typewriting			
001	10:30-12:20	Tu F	PB 3415	Houser
201b-3	Typewriting			201a
e001	8:30-10:20	M W	PB 3415	Coffey
201c-3	Typewriting			201b
001	10:30-12:20	M Th	PB 3415	Palmer
221a-4	Shorthand and Transcription			
001	8:30-10:20	Tu F	PB 3415	Palmer
221c-4	Shorthand and Transcription			221b
e001	6:30-8:20	M W	PB 3415	Coffey
304-3	Advanced Typewriting			201
e001	6:30-8:20	Tu Th	PB 3415	Maedke
324a-4	Advanced Shorthand and Transcription			221
001	8:30-10:20	M Th	PB 3415	Maedke
326-4	Executive Office Procedures			201
e001	6:30-8:20	Tu Th	PB 3415	Palmer
341-4	Office Machines			
e001	6:30-8:20	M W	PB 3412	Brady
351-4	Foundations of Business Education			Junior standing
001	12:30-2:20	M Th	PB 3415	Maedke
403-3	Teaching Typewriting			304
001	2:30-3:45	Tu Th	PB 3415	Brady
408-3	Teaching Data Processing and Bookkeeping			Acct. 251b
e001	5:30-8:20	W	PB 1306	Houser
414a-3	Organization and Administration of Cooperative Vocational Business Education Program			
e001	5:30-8:10	W	PB 0413	
426-4	Office Management			
e001	8:30-10:20	M W	PB 0314	Houser

## CHEMISTRY (CHEM)

110-4	General and Inorganic Chemistry			
Lect A	3:30-4:20	M W F	SCI 200	Parrill
Lab 201	12:30-3:20	M	SCI 205	

## 22 CHEMISTRY (CHEM)

Course No.—Hours Descriptive Title .....  
 Edw. Alton E. St. Louis Time Days Place Instructor

110-4	General and Inorganic Chemistry .....						
	Lab 202	12:30-3:20	W			SCI 205	
111a-5	Chemical Principles and Inorganic Chemistry .....						High school algebra and geometry
	Lect A	8:30-9:20	M	W	F	SL 1105	
	Lab 001	8:30-9:20	Tu			SL 1210	
		8:30-11:20			Th	SL 1209	
	Lab 002	8:30-9:20			Th	SL 1210	
		8:30-11:20	Tu			SL 1209	
	Lab 003	12:30-1:20	M			SL 2224	
		12:30-3:20		W		SL 2215	
	Lab 004	12:30-1:20		W		SL 2224	
		12:30-3:20	M			SL 2215	
	Lab 005	9:30-10:20	M			SL 2224	
		9:30-12:20		W		SL 2215	
	Lab 006	9:30-10:20		W		SL 2224	
		9:30-12:20	M			SL 2215	
	Lab 007	12:30-1:20	Tu			SL 2224	
		12:30-3:20			Th	SL 2215	
	Lab 008	12:30-1:20			Th	SL 2224	
		12:30-3:20	Tu			SL 2215	
	Lab 009	9:30-10:20	Tu			SL 1210	
		9:30-12:20			F	SL 1209	
111b-5	Chemistry Principles and Inorganic Chemistry .....						111a
	Lect A	8:30-9:20	M	W	F	PB 0304	Phillips
	Lab 001	8:30-9:20	Tu			SL 2224	
		8:30-11:20			Th	SL 2215	
	Lab 002	8:30-9:20			Th	SL 2224	
		8:30-11:20	Tu			SL 2215	
	Lab 003	9:30-10:20	Tu			SL 2224	
		9:30-12:20			F	SL 2215	
235-5	General Quantitative Analysis .....						111c
	Lect A	11:30-12:20	M	W	F	SL 2224	Shiflett
	Lab 001	12:30-3:20	M	W		SL 2217	
	Lab 002	12:30-3:20	Tu	Th		SL 2217	
341a-5	Organic Chemistry .....						111c
	Lect A	9:30-10:20	M	W	F	PB 1402	
	Lab 001	12:30-3:20	M	W		SL 2216	
	Lab 002	12:30-3:20	Tu	Th		SL 2216	
	Lab 003	9:30-12:20	Tu	Th		SL 2216	
375-1	Chemistry Seminar .....						Senior standing
	E001	4:30-5:20	M			SL 2224	
433-3	Intermediate Quantitative Analysis .....						432a or b, 461c
	E001	5:30-6:20	M	W		SL 2224	Firsching
	Lab E	6:30-9:20	M			SL 2216	
446-4	Qualitative Organic Analysis .....						305b or 341c
	001	1:30-2:20	Tu	Th		SL 2224	Probst
	Lab	Arranged				SL 2216	
451a-4	Biochemistry .....						235, 305b or 341c
	E001	5:30-6:45	Tu	Th		SL 2224	Jason
	Lab A	7:00-9:50	Tu			SL 2216	
461a-4	Physical Chemistry .....						Concurrent enrollment in
						235, 341c, calculus, 12 hours physics	
	Lect EA	5:30-6:45	M	W		SL 1210	Rands
	Lab E001	7:00-9:50	M			SL 2218	
	Lab 002	1:30-4:20		W		SL 2218	
	Lab E003	7:00-9:50		W		SL 2218	
464-3	Intermediate Physical Chemistry .....						461c
	E001	7:30-8:45	Tu	Th		SL 2224	White

## COMPARATIVE LITERATURE (CLT)

410a-4	Poetry .....						
	001	Arranged					Gunther

## COUNSELOR EDUCATION (CED)

305-4	Educational Psychology .....						GSB 201c
	001	1:30-3:20	Tu	Th		PB 3302	Engbretson
	002	10:30-11:20	MTuWTh			PB 3302	Shaffer
	003	8:30-9:20	MTuWTh			PB 3302	Burcky
	004	2:30-4:20	Tu	Th		PB 2403	Shaffer
420-4	Educational Statistics .....						305
	E001	1:30-3:20	Tu	Th		PB 1414	
422-4	Educational Measurement I .....						305
	001	1:30-3:20	Tu	Th		PB 3305	Kunkel
	E002	5:30-8:20		ThF*		PB 0409	Guese
	003	9:00-12:20			S	PB 0406	Komm
	E401	4:30-6:20	M	W		ESL 105	McBride

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			

501-2 to 8	Special Research Problems			Graduate standing, consent of ed div adviser
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001	Arranged			
515-4	Psychological Aspects of Education			Graduate standing
E001	5:30-8:20	M	PB 3313	Engbretson
E002	5:30-8:20	W	PB 3316	Harmin
522-4	Educational Measurements II			420, 422
E001	5:30-8:20	W	SL 0226	
525-4	School Behavior Problems and Their Prevention			Consent of instructor
E001	5:30-8:20	M	PB 1402	Pancrazio
535-4	Introduction to Individual Measurement			522
E001	5:30-8:20	M	PB 3316	Rochester
537-4	Counseling Theory and Practice I			412, 542
E001	5:30-8:20	Tu	PB 3305	Pancrazio
E002	5:30-8:20	Tu	PB 3315	
538-4	Counseling Theory and Practice II			537
E001	5:30-8:20	Tu	PB 3313	Sonstegard
E002	5:30-8:20	Th	PB 2403	Soper
541-4	Occupational Information and Guidance			542
E001	5:30-8:20	Th	PB 3313	Van Horn
542-4	Basic Principles of Guidance			305
E001	5:30-8:20	M	PB 0411	Ederle
543-4	Guidance Through Groups			442
001	9:00-11:40		S PB 2403	Sonstegard
545j-4	Seminar in Guidance: Organization and Administration			537a
E001	5:30-8:20	Th	PB 3315	Ederle
562b-4	Adolescent Development in Education			Graduate standing
E001	5:30-8:20	Th	PB 3316	Troyer
575c-4 to 8	Practicum in Secondary Guidance			Consent of ed div adviser
001	Arranged			Soper

## ECONOMICS (ECON)

200-4	Macroeconomics			Sophomore standing
001	8:30-10:20	M Th	PB 2410	Schwier
002	8:30-10:20	Tu F	PB 3303	Glynn
E003	6:30-8:20	Tu Th	PB 0312	Glynn
201-4	Microeconomics			Sophomore standing
001	12:30-2:20	M Th	PB 0312	C. Drake
E401	6:30-8:20	Tu Th		
300-4	The Monetary System and Economic Policy			210
001	12:30-2:20	Tu F	PB 0304	Livingston
E002	8:30-10:20	Tu Th	PB 1410	
310-4	Labor Problems			210
001	10:30-12:20	Tu F	PB 2405	C. Drake
440-4	Intermediate Micro Theory			210
001	12:30-2:20	M Th	PB 2410	Hashimi
470-3	Business Cycles			210
E001	6:30-7:45	M W	PB 2405	L. Drake

## EDUCATIONAL ADMINISTRATION (ED AD)

355-4	Philosophy of Education			Consent of education division adviser
001	10:30-12:20	M W	PB 2304	Curry
002	10:30-12:20	M W	PB 3305	Hofmann
003	2:30-4:20	M W	PB 0411	Hofmann
004	1:30-3:20	Tu Th	PB 0408	Curry
E005	6:30-8:20	Tu Th	PB 0307	
E401	4:30-6:20	Tu Th	ESL 105	
456-4	School Supervision			
E001	5:30-8:20	ThF*	PB 3404	
500-4	Research Methods			Consent of education division adviser
E001	5:30-8:20	Tu	PB 3404	H. Smith
E002	5:30-8:20	W	PB 0408	Jordan
E003	5:30-8:20	Th	PB 3409	
004	9:00-11:40	S	PB 3409	H. Smith
E401	5:30-8:20	Th	ESL 222	
502-4	Seminar in Comparative Education			Consent of education division adviser
001	5:30-8:20	M	PB 2414	Wantling
520-4	Illinois School Law			Consent of education division adviser
E001	5:30-8:20	Tu	PB 0406	Harry Smith

\* First four Fridays only.



## 24 EDUCATIONAL ADMINISTRATION (ED AD)

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
524-4	School Administration .....				Consent of ed div adviser
E001		5:30-8:20	M	PB 0406	
534a-4	School Finance .....				Consent of ed div adviser
E001		5:30-8:20	W	PB 0406	Wilkins
554-4	Contrasting Philosophies of Education .....				Consent of education division adviser
E001		5:30-8:20	M	PB 2413	Villemain
	E401	5:30-8:20	Tu	ESL 104	
560-4	Curriculum .....				Consent of ed div adviser
E001		5:30-8:20	Tu	PB 2413	Smyers
565-4	The Junior College .....				Consent of ed div adviser
E001		5:30-8:20	W	PB 2413	Goodwin
575a-4	Individual Research (Curriculum) .....				Consent of education division adviser
001	Arranged				
575b-4	Individual Research (Supervision) .....				Consent of education division adviser
001	Arranged				
575c-4	Individual Research (Buildings) .....				Consent of education division adviser
001	Arranged				
575d-4	Individual Research (Finance) .....				Consent of education division adviser
001	Arranged				
575e-4	Individual Research (School Law) .....				Consent of education division adviser
001	Arranged				
575f-4	Individual Research (Comparative Education) .....				Consent of education division adviser
001	Arranged				
575g-4	Individual Research (History of Education) .....				Consent of education division adviser
001	Arranged				
575h-4	Individual Research (Philosophy of Education) .....				Consent of education division adviser
001	Arranged				
575j-4	Individual Research (Administration) .....				Consent of education division adviser
001	Arranged				
575k-4	Individual Research (Educational Administration) .....				Consent of education division adviser
001	Arranged				
597-1 to 3	Thesis .....				Consent of education division adviser
001	Arranged				
598-1 to 3	Thesis .....				Consent of education division adviser
001	Arranged				
599-1 to 3	Thesis .....				Consent of education division adviser
001	Arranged				

## ELEMENTARY EDUCATION (EDEL)

203-3	Understanding the Elementary School Child .....				
001		2:30-3:45	Tu Th	PB 1306	Steinbrook
	401	1:30-2:45	M W	ESL 112	Swerdlin
314-4	Elementary School Methods .....				Consent of education division adviser
001		11:30-1:20	Tu Th	PB 3305	Swerdlin
E002		4:30-6:20	M W	PB 3422	
337-4	Reading in the Elementary School .....				Consent of education division adviser
001		2:30-4:20	M W	PB 3302	Richardson
E002		4:30-6:20	Tu Th	PB 3302	Starr
350d-8 to 12	Kindergarten-Primary Student Teaching .....				
001	Arranged				
350e-4 to 8	Advanced Kindergarten-Primary Student Teaching .....				
001	Arranged				
351d-8 to 12	Elementary Student Teaching .....				
001	Arranged				
351e-4 to 8	Advanced Elementary Student Teaching .....				
001	Arranged				
413-4	Children's Literature .....				Consent of ed div adviser
E001		4:30-6:20	Tu Th	PB 0314	Darnell
415-4	Improvement of Instruction in Arithmetic in the Elementary School .....				Consent of education division adviser
001		9:30-12:20	Tu	PB 0306	Carpenter
E002		5:30-8:20	Tu	PB 3409	Steinbrook
437-4	Problems in Reading .....				Consent of education division adviser
E001		5:30-8:20	Th	PB 0406	Richardson

\* First four Fridays only.

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
442-4	Science for the Elementary Teacher			
E001	5:30-8:20	M	PB 0413	Bliss
505-4	Improvement of Reading Instruction			
E001	5:30-8:20	W	PB 2414	Bear
507-2 to 4	Readings in Reading			
001	Arranged			
509-4	Practicum in Reading			
001	Arranged			
521a-4	Diagnosis and Correction of Reading Disabilities			
(All students enroll for the lecture and one laboratory)				
Lect EA	5:30-7:20	Th	PB 3422	Bear
Lab 001	8:00-9:30	S	PB 3422	
Lab 002	9:30-11:00	S	PB 3422	
Lab 003	11:00-12:30	S	PB 3422	
521b-4	Diagnosis and Correction of Reading Disabilities			
(All students enroll for the lecture and one laboratory)				
Lect EA	5:30-7:20	W	PB 2409	Steinkellner
Lab 001	8:00-9:30	S	PB 2409	
Lab 002	9:30-11:00	S	PB 2409	
Lab 003	11:00-12:30	S	PB 2409	
542-4	Language Arts in the Elementary School			
E001	5:30-8:20	Tu	PB 2409	Jordan
543-4	Teaching the Social Studies in the Elementary School			
E001	5:30-8:20	Tu	PB 2414	Carpenter
557-4	The Elementary Principalship			
E001	5:30-8:20	W	PB 2412	
561-4	The Elementary School Curriculum			
001	9:00-11:40	S	PB 2414	Comer
575a-4	Individual Research (Curriculum)			
001	Arranged			
575b-4	Individual Research (Supervision)			
001	Arranged			
575c-4	Individual Research (Language Arts)			
001	Arranged			
575d-4	Individual Research (Science)			
001	Arranged			
575e-4	Individual Research (Reading)			
001	Arranged			
575f-4	Individual Research (Social Studies)			
001	Arranged			
575g-4	Individual Research (Elementary Education)			
001	Arranged			
575h-4	Individual Research (Arithmetic)			
001	Arranged			
575j-4	Individual Research (Problems in Kindergarten-Primary)			
001	Arranged			
575k-4	Individual Research (Elementary Administration)			
001	Arranged			
596-5 to 9	Independent Investigation			
001	Arranged			
597-1 to 3	Thesis			
001	Arranged			
598-1 to 3	Thesis			
001	Arranged			
599-1 to 3	Thesis			
001	Arranged			

## SECONDARY EDUCATION (EDS)

315-4	High School Methods	Consent of ed div adviser		
001	9:30-11:20	Tu Th	PB 2409	Smyers
002	1:30-3:20	M W	PB 1307	Smyers
003	3:30-5:20	Tu Th	PB 0408	Hileman
E004	6:30-8:20	M W	PB 3422	
352d-8 to 12	Secondary Student Teaching	Consent of education division adviser		
001 through 026	Arranged			
001	Agriculture	014	Home Economics	
002	Art	015	Industrial Education	
003	Biology	016	Journalism	
004	Business	017	Mathematics	
005	Chemistry	018	Music	
006	Economics	019	Physical Education	
007	English	020	Physics	
008	Foreign Language	021	Sociology	
009	General Science	022	Social Studies	
010	Geography	023	Speech	
011	Government	024	Library Service	
012	Health Education	025	Psychology	
013	History	026	School Nursing	

## 26 SECONDARY EDUCATION (ED S)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			

**352d-8 to 12 Secondary Student Teaching** ..... Consent of education division adviser

023 Speech	025 Psychology
024 Library Service	026 School Nursing

**352e-4 to 8 Secondary Student Teaching** ..... Consent of education division adviser

001 through 026 Arranged  
(See above listing under 352d)

**440-4 Teaching Reading in High School** ..... Consent of education division adviser

E001	5:30-8:20	M	F*	PB 0412	Steinkellner
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**488-4 Teaching the Social Studies in Secondary Schools** ..... Consent of education division adviser

001	9:00-11:40		S	PB 0413	Boss
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**505-4 Improvement of Reading Instruction** .....

E001	5:30-8:20	W		PB 0412	Bear
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**507-4 Readings in Reading** .....

001	Arranged				Bear & Richardson
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**508-4 Seminar: Trends in Selected Areas in Secondary Schools** .....

001	9:00-11:40		S	PB 0412	Bliss
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**509-4 Practicum in Reading** .....

001	Arranged				
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**521a-4 Diagnosis and Correction of Reading Disabilities** .....

(All students enroll for the lecture and one laboratory)

Lect EA	5:30-7:20	Th		PB 2413	Bear
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Lab 001	8:00-9:30		S	PB 2413	
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Lab 002	9:30-11:00		S	PB 2413	
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Lab 003	11:00-12:30		S	PB 2413	
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**521b-4 Diagnosis and Correction of Reading Disabilities** .....

(All students enroll for the lecture and one laboratory)

Lect EA	5:30-7:20	W		PB 0314	Steinkellner
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Lab 001	8:00-9:30		S	PB 0314	
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Lab 002	9:30-11:00		S	PB 0314	
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Lab 003	11:00-12:30		S	PB 0314	
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**562-4 The High School Curriculum** .....

E001	5:30-8:20	M		PB 2409	Madson
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**570-4 Extra Class Activities** .....

E001	5:30-8:20	Tu		PB 0408	Madson
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**575a-4 Individual Research (Curriculum)** .....

001	Arranged				
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**575b-4 Individual Research (Supervision)** .....

001	Arranged				
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**575c-4 Individual Research (Language Arts)** .....

001	Arranged				
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**575d-4 Individual Research (Science)** .....

001	Arranged				
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**575e-4 Individual Research (Reading)** .....

001	Arranged				
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**575f-4 Individual Research (Social Studies)** .....

001	Arranged				
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**575g-4 Individual Research (Secondary Education)** .....

001	Arranged				
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**575h-4 Individual Research (Higher Education)** .....

001	Arranged				
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**575j-4 Individual Research (Junior College)** .....

001	Arranged				
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**596-5 to 9 Independent Investigation** .....

001	Arranged				
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**597-1 to 3 Thesis** .....

001	Arranged				
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**598-1 to 3 Thesis** .....

001	Arranged				
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**599-1 to 3 Thesis** .....

001	Arranged				
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## SPECIAL EDUCATION (SPE)

**410a-4 Problems and Characteristics of the Emotionally Disturbed Child** ..... C Ed 305 or Psyc 301 or 303

E001	5:30-8:20	Tu	F*	PB 2304	Bommarito
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**410b-4 Problems and Characteristics of the Mentally Retarded Child** ..... C Ed 305 or Psyc 301 or 303

E001	5:30-8:20	M	F*	PB 3302	Johnson
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**410c-4 Problems and Characteristics of the Gifted Child** ..... C Ed 305 or Psyc 301 or 303

E001	5:30-8:20	Th	F*	PB 3305	Shaffer
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\* First four Fridays only.



Course No.—Hours	Descriptive Title	Edw.	Alton	E. St. Louis	Time	Days	Place	Instructor
413a-4	Directed Observation of the Emotionally Disturbed							Concurrent enrollment in 410a
001	Meets first week with 410b, then hours arranged.							
413b-4	Directed Observation of the Educable Mentally Handicapped							Concurrent enrollment in 410b
001								Johnson
	Meets first week with 410c, then hours arranged.							
413c-4	Directed Observation of the Gifted							Consent of instructor
001								Shaffer
	Meets first week with 410a, then hours arranged.							
414-4	The Exceptional Child						C Ed 305 or Psyc 301 or 303	
E001					5:30-8:20	W	F* PB 3313	
420b-4	Methods and Materials in the Education of the Educable Mentally Handicapped							410b
E001					5:30-8:20	M	PB 2304	Tucker
					5:30-8:20		F* PB 1414	
428-4	Speech Correction for the Classroom Teacher (Same as S P & A 428)							
E001					5:30-8:20	ThF*	CB 2012	Carey
501-4	Special Research Problems							
001	Arranged							
577-4	Practicum in Special Education							
001	Arranged							Tucker
590a-4	Seminar: Mental Retardation							410b
E001					5:30-8:20	Th	PB 2304	Tucker

## ENGLISH (ENG)

300-4	Principles of English Grammar							Satisfaction of GS requirements at 1st and 2nd level in areas C and D
001					1:30-2:20	MTu ThF	PB 0406	
302a-4	Survey of English Literature (to 1550)							Satisfaction of GS requirements at 1st and 2nd level in areas C and D
001					9:30-10:20	MTu ThF	PB 1306	
002					1:30-2:20	MTu ThF	PB 0413	Duncan
E003					6:30-8:20	M W	PB 0307	
302b-4	Survey of English Literature (1550-1750)							Satisfaction of GS requirements at 1st and 2nd level in areas C and D
001					11:30-12:20	MTu ThF	PB 1306	
309a-4	Survey of American Literature (to 1865)							Satisfaction of GS requirements at 1st and 2nd level in areas C and D
001					8:30-9:20	MTu ThF	PB 1306	Bailey
E002					8:30-10:20	Tu Th	PB 0307	Havens
309b-4	Survey of American Literature (after 1865)							Satisfaction of GS requirements at 1st and 2nd level in areas C and D
001					1:30-2:20	MTu ThF	PB 0412	Austin
365-4	Shakespeare							
001					8:30-9:20	MTu ThF	PB 0412	Taylor
391-3	Usage in Spoken and Written English							Satisfaction of GS requirements at 1st and 2nd level in areas C and D
001					2:30-3:20	MTu Th	PB 0412	
E002					6:30-7:45	M W	PB 0309	
392-3	Professional Writing I							Satisfaction of GS requirements at 1st and 2nd level in areas C and D
001					2:30-3:45	Tu Th	PB 3404	Havens
400-4	Introduction to English Linguistics							Junior standing or consent of instructor
001					8:30-12:20	S	PB 0307	Van Syoc
404b-4	Middle English Literature (Chaucer)							Junior standing or consent of instructor
001					4:30-6:20	M W	PB 3409	Drake
420a-4	American Poetry (to 1900)							Junior standing or consent of instructor
001					10:30-11:20	MTu ThF	PB 0409	Joost
421a-4	English Poetry (Early Romantics)							Junior standing or consent of instructor
E001					4:30-6:20	Tu Th	PB 0307	Bailey
421d-4	English Poetry (Modern)							Junior standing or consent of instructor
001					2:30-3:20	MTu ThF	PB 0409	Thompson
454a-4	English Fiction: 18th Century Novel							Junior standing or consent of instructor
001					1:30-2:20	MTu ThF	PB 0409	Joost
460b-4	English Drama (Jacobean)							Junior standing or consent of instructor
001					9:30-10:20	MTu ThF	PB 0409	Taylor

\* First four Fridays only

## 28 ENGLISH (ENG)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
468-4	American Drama			309a or b
001	11:30-12:20	MTu ThF	PB 1414	Going
485-4	Problems in the Teaching of English			Junior standing or consent of instructor
001	9:00-12:20		S PB 0309	Steinman
488a-3	Methods of Teaching English as a Foreign Language			Junior standing or consent of instructor
E001	8:30-9:45	Tu Th	PB 3409	Van Syoc
500a-2	Materials and Methods of Research in English			
E001	4:30-6:20	M	PB 1304	Stanley
501-4	Old English Grammar			
E001	4:30-6:20	M W	PB 0309	Wood
534-4	Studies in Early Nineteenth-Century American Writers			
E001	4:30-6:20	Tu Th	PB 2415	Austin
543-4	Studies in Victorian Non-Fiction Prose			
E001	6:30-8:20	Tu Th	PB 2415	Duncan

## ENGINEERING (ENGR)

260a-3	Analytical Mechanics			Concurrent enrollment in Math 150b
001	2:30-3:20	M W F	SL 1212	Brown
300a-3	Thermodynamics			Math 252a
001	1:30-2:20	M W F	SL 1212	Rockman
311a-3	Engineering Materials			Concurrent enrollment in 260
001	9:30-10:20	M W F	SL 1212	Jones
	Lab to be arranged			
420a-3	Transport Phenomena			
001	8:30-9:20	M W F	SL 1212	

## FINANCE (FIN)

320-4	Corporation Finance			Acct 251c, Econ 210
001	8:30-10:20	Tu F	PB 2405	
E002	8:30-10:20	Tu Th	PB 0312	
420-4	Problems in Corporation Finance			320
001	12:30-2:20	Tu F	PB 0312	
425-4	Investments			420
E002	6:30-8:20	Tu Th	PB 0314	

## FOREIGN LANGUAGES (FL)

## French (Fr)

123a-1	French Conversation			Concurrent enrollment in GSD 123a
001	9:30-10:20		F	PB 3313
002	9:30-10:20		F	PB 3315
003	1:30-2:20		F	PB 3313
E202	7:55-8:20	Tu Th	ANA 100	
★E401	7:55-8:20	M W	ESL 105	
200-4	French Review			
001	11:30-12:20	M	PB 2412	
	11:30-12:20	Tu Th	PB 0314	
	11:30-12:20		F	PB 0413
201a-3	Intermediate French			GSD 123
001	11:30-12:20	M W F	PB 1307	
002	11:30-12:20	M W F	PB 3302	
220-2	Intermediate French Conversation			Concurrent enrollment in 201a
001	11:30-12:20	Tu Th	PB 1307	
002	11:30-12:20	Tu Th	PB 3404	
338a-4	French Literature from the Middle Ages Through the 17th Century			220 or consent of instructor
001	2:30-4:20	Tu Th	PB 0413	
351a-3	Advanced French Conversation and Composition			220 or consent of instructor
001	2:30-3:45	M W	PB 0413	
002	11:30-12:20	Tu Th	PB 3404	
451a-2	French Seminar			Consent of instructor
E001	5:30-7:20	Tu	PB 0411	
451b-2	French Seminar			Consent of instructor
E001	5:30-7:20	Th	PB 0411	

## German (Ger)

126a-1	German Conversation			Concurrent enrollment in GSD 126a
001	11:30-12:20		F	PB 3313

Course No.—Hours	Descriptive Title	Edw.	Alton	E. St. Louis	Time	Days	Place	Instructor
002	11:30-12:20					F	PB 3315	
003	12:30-1:20					F	PB 3313	
004	3:30-4:20					F	PB 3313	
★201	12:55-1:20					Tu Th	ANA 100	
E402	7:55-8:20					Tu Th	ESL 212	
126c-1	German Conversation							
001	2:30-3:20					F	PB 3313	
201a-3	Intermediate German							GSD 126
001	2:30-3:20					M W F	PB 0306	
220-2	Intermediate German Conversation							Concurrent enrollment in 201a
001	2:30-3:20					Tu Th	PB 0306	
313a-4	German Literature Before Romanticism							220
001	Arranged							
351a-3	Advanced German Conversation and Composition							220
001	3:30-4:45					M W	PB 2409	or consent of instructor
451a-2	German Seminar							Consent of instructor
E001	5:30-7:20					Tu	PB 0413	
451b-2	German Seminar							Consent of instructor
E001	5:30-7:30					Th	PB 0413	

## Italian (Ital)

144a-1	Italian Conversation							Concurrent enrollment in GSD 144a
★E201	7:55-8:20					Tu Th	ANA 101	
201a-3	Intermediate Italian							GSD 144
E201	6:30-7:45					Tu Th	SCI 201	
220-2	Intermediate Italian Conversation							Concurrent enrollment in 201a
E201	7:55-8:45					Tu Th	SCI 201	

## Spanish (Span)

140a-1	Spanish Conversation							Con. enroll. in GSD 140a
001	10:30-11:20					F	PB 3313	
002	10:30-11:20					F	PB 3315	
003	3:30-4:20					F	PB 3315	
E201	7:55-8:20					M W	ANA 108	
★401	11:30-12:20					F	ESL 112	
140c-1	Spanish Conversation							
001	2:30-3:20					F	PB 0406	
201a-3	Intermediate Spanish							GSD 140
001	12:30-1:20					M W F	PB 3302	
401	10:30-11:20					M W F	ESL 104	
220-2	Intermediate Spanish Conversation							Concurrent enrollment in 201a
001	12:30-1:20					Tu Th	PB 3302	
304a-4	Modern Spanish Literature							220
001	2:30-4:20					M W	PB 0304	
351a-3	Advanced Spanish Conversation and Composition							220
001	12:30-1:45					Tu Th	PB 0411	or consent of instructor
451a-2	Spanish Seminar							Consent of instructor
E001	5:30-7:20					M	PB 2415	
451b-2	Spanish Seminar							Consent of instructor
E001	5:30-7:20					W	PB 2415	

GENERAL BUSINESS  
ADMINISTRATION (GBA)

All day students register for lecture and one quiz section.

140-4	Introduction to Business							
Lect A	8:05-9:20					Tu Th	SL 1105	Myers & Scott
Lab 001	9:30-10:20					W	PB 2405	Myers
Lab 002	9:30-10:20					W	PB 2410	Scott
Lab 003	9:30-10:20					W	PB 0312	Ingwersen
Lab 004	9:30-10:20					W	PB 2306	Potter
E005	8:30-10:20					M W	PB 2412	Potter
E201	6:30-8:20					M W	SCI 102	Carr
E401	6:30-8:20					Tu Th	ESL 103	Blackledge
340-3	Organization Behavior and Decision Making							Junior standing or consent of instructor
001	8:30-10:20					M Th	PB 0312	Jain
E002	6:30-8:20					Tu Th	PB 2405	Jain
341-4	Organizational Problems							
001	12:30-2:20					Tu F	PB 2405	McKinney
342-4	Contracts—Agency Law							Mgt. 371
E001	6:30-8:20					M W	PB 2410	



## 30 GENERAL BUSINESS ADMINISTRATION (GBA)

Course No.—Hours	Descriptive Title	Edw.	Alton	E. St. Louis	Time	Days	Place	Instructor
440-4	Legal Environment of Business							Senior standing
001					12:30-2:20	M Th	PB 2306	
E002					6:30-8:20	Tu Th	PB 1410	
441-3	Business Policy							Senior standing
001					8:30-10:20	Tu F	PB 0312	Sobolik
E002					8:30-10:20	M W	PB 0312	Blackledge

## G E O G R A P H Y (GEOG)

302-4	Introduction to Physical Geography							
001					2:30-3:20	MTuWTh	SL 1215	Yarbrough
304-4	Introduction to Economic Geography							GSB 203
001					11:30-12:20	MTuW F	PB 1412	Kircher
310a-3	Introduction to Cartographic Methods							GSB 101a
001					1:30-3:20	Tu Th	SL 1216	Guffy
406b-3	Advanced Cultural Geography I (Population)							306
E001					5:30-8:20	W	PB 1402	Baker
426a-4	Photogrammetry							Math 252
001					Arranged			Arnott
461a-4	Advanced Regional Geography: Anglo-America							6 hours
001					12:30-1:20	MTuWTh	PB 1412	Geog Baker
462b-3	Advanced Regional Geography: Europe							6 hours Geog
E001					5:30-8:20	Th	PB 1412	Clements
470a-4	Urban Planning: Planning Concept and Methods							6 hours
E001					6:30-8:20	M W	PB 0306	Geog Lossau
490a-2	Tutorial in Geography (Planning Problems)							Consent of faculty chairman
E001					6:30-8:20	Tu	LB 0044	
511-4	Philosophy of Geography							
E001					5:30-8:20	Tu	PB 1412	Collier
521-4	Seminar in Economic Geography							
E001					5:30-8:20	Th	SL 1216	Koepeke
530-2 to 4	Independent Studies in Geography							Consent of faculty chairman
001					Arranged			Kazeck
599-4 to 8	Thesis							
					Arranged			Kazeck

## G O V E R N M E N T (GOVT)

200-4	Introduction to Political Science							
001					11:30-12:20	MTuWTh	PB 0307	Stahnke & Ellsworth
360-4	Introduction to Public Administration							GSB 203a
001					12:30-1:20	MTuWTh	PB 0309	McHargue
415a-3	Political Behavior							GSB 203a
001					9:30-10:20	TuWTh	PB 0309	Ellsworth
450a-4	Latin American Governments							200, GSB 203a
001					10:30-11:20	MTuWTh	PB 0309	Maier
458a-4	Government and Politics of Asia							390b or consent
001					2:30-3:20	MTuWTh	PB 0307	Stahnke
470a-4	Urban Planning: Planning Concepts and Methods							6 hours
E001					6:30-8:20	M W	PB 0306	Geog Lossau
472-4	International Government							200
E001					4:30-6:20	M W	PB 0307	Feeney
484a-4	History of Political Theories							200
001					10:30-11:20	MTuWTh	PB 0406	Mace
495a-4	Constitutional Law							203a
001					11:30-12:20	MTuWTh	PB 0309	Kerr
515-3	Seminar in Comparative Governments							
001					Arranged			Maier

## H E A L T H E D U C A T I O N (HED)

302s-4	Driver Education and Training							Valid driver's license
001					9:00-12:50		S Tract 27	Klein
334s-4	First Aid							
E201					5:30-9:20	M	Gym 102	Klein

## H I S T O R Y (HIST)

100-3	Survey of Ancient History							
001					1:30-2:20	M W	PB 1414	Astour
309-4	The Negro in America							
001					3:30-4:20	MTuWTh	PB 0314	Rudwick

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
332a-4	Medieval History			Sophomore standing
001	11:30-12:20	MTuWTh	PB 0413	Steckling
352a-3	History of Latin America			
001	8:30-9:20	M WTh	PB 0307	Millett
367a-3	History of the Far East			
E001	8:30-9:45	M W	PB 0307	
415b-4	Early Modern Europe			GSB 101b, c
001	12:30-1:20	MTuWTh	PB 0314	Erickson
417b-4	Advanced English History			
001	10:30-11:20	TuWThF	PB 0314	Haas
425a-3	American Colonial History			GSB 300a
E001	6:30-7:45	Tu Th	PB 0309	McCurry
440a-3	History of American Diplomacy			GSB 300a, b or consent of instructor
001	12:30-1:20	M WTh	PB 0412	Weiss
452-3	Historical Research and Thesis Writing			Majors only
001	2:30-3:45	Tu Th	PB 1304	Kimball
500-4	History Seminar			Graduate standing
E001	6:30-8:20	Tu	PB 1304	Gallaher
554-4	Problems in Nineteenth Century America			Graduate standing
E001	6:30-8:20	M W	PB 1304	Riddleberger

## HUMANITIES (HUM)

301-3	Humanities Honors			Invitation of honors committee
001	9:30-10:20	Tu Th	PB 0413	Corr
E002	4:30-6:20	W	PB 0306	Taylor

## INSTRUCTIONAL MATERIALS (IM)

308-4	School Library Technical Processes			
E001	4:30-6:20	Tu Th	PB 0306	
403-4	School Library Functions and Management			
E001	5:30-8:20	W	SL 3225	Holzberlein
407-4	Basic Reference Sources			
E001	5:30-8:20	Tu	PB 3316	
413-4	Cataloging of Non-Book Materials			
E001	5:30-8:20	Tu	CB 0194	Holzberlein
417-4	Audio-Visual Methods in Education			
001	9:00-11:40		S LB 0042	
E002	5:30-8:20	W	LB 0042	
003	1:30-3:20	M W	LB 0042	
E004	4:30-6:20	Tu Th	LB 0042	
440-2	Photography for Teachers			
E001	6:30-8:20	Tu	LB 0042	
445-4	Preparation of Teacher-Made Audio-Visual Materials			417 or consent of instructor
E001	5:30-8:20	M	LB 0042	
E002	5:30-8:20	Th	CB 0194	
530-4	History of Books and Libraries			
E001	5:30-8:20	Th	PB 2409	
548-4	Supervision and Administration of an Audio-Visual Program			417 or consent of instructor
001	9:00-11:40	S	PB 0306	
549-4	Visual Learning			Consent of instructor
E001	5:30-8:20	Th	PB 1402	

## JOURNALISM (JRNL)

103-3	News			
001	1:30-2:45	M W	PB 3315	
201-3	News Writing and Editing I			
001	Arranged			

## MANAGEMENT (MGT)

440-4	The Management Processes			MBA students only
E001	8:30-10:20	M W	PB 0304	Jain

## MANAGEMENT OPERATING SYSTEMS (MOS)

280-4	Introduction to Electronic Data Processing			
E001	4:30-6:20	M W	CB 0186	J. Mille
281-4	Principles of Computer Programming			
E001	6:30-8:20	M W	CB 0186	Tarpey
380-4	Management Operating Systems I			Acct 251b
E001	8:30-10:20	Tu Th	CB 0186	Rodier

# 32 MANAGEMENT OPERATING SYSTEMS (M O S)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
381-4	Management Operating Systems II		Mgt 240 or 241	
E001	4:30-6:20	Tu Th	CB 0186	Miller & Rodier

## MARKETING (MKTG)

370-4	Consumer Behavior		Junior standing or consent	
001	8:30-10:20	M Th	PB 3305	Eckles
371-4	Principles of Marketing Management		Econ 210	
001	12:30-2:20	Tu F	PB 2410	Gwin
002	12:30-2:20	M Th	PB 2405	Bosse
E003	6:30-8:20	Tu Th	PB 2306	Gwin
470-4	Marketing Research		230, GSD 114d	
001	10:30-12:20	Tu F	PB 2410	DeBord
E002	8:30-10:20	Tu Th	PB 2410	DeBord
471-4	Advertising Policy and Management		230	
001	8:30-10:20	Tu F	PB 2410	Eckles
472-4	Sales Policy and Management		230	
E001	6:30-8:20	Tu Th	PB 2410	Gwin

## MATHEMATICS (MATH)

150a-4	Elementary Calculus and Analytic Geometry		GSD 114 or 111	
001	10:30-11:20	M WThF	SL 1224	Poynor
002	11:30-12:20	M WThF	SL 1224	Haimo
003	11:30-12:20	M WThF	PB 0406	Garder
E004	6:30-8:20	M W	SL 1224	Lindstrum
150b-4	Elementary Calculus and Analytic Geometry		150a	
001	9:30-10:20	M WThF	SL 1225	Holder
002	1:30-2:20	M WThF	SL 3225	Sturley
225-4	Programming for Digital Computers		GSD 114a	
E001	6:30-8:20	Tu Th	CB 0186	Goering
252a-4	Calculus and Analytical Geometry		150b	
001	9:30-10:20	M WThF	SL 1224	Fanning
252b-4	Calculus and Analytical Geometry		252a	
001	11:30-12:20	M WThF	PB 0412	Hattermer
300-4	The Real Number System		150b	
001	10:30-11:20	M WThF	PB 1307	
305a-3	Applied Mathematics for the Physical Sciences		252b, Phys 211c	
E001	6:30-7:45	Tu Th	SL 1105	Hattermer
002	10:30-11:20	M W F	SL 0226	
310-4	The Teaching of Elementary Mathematics		GSD 112	
001	8:30-9:20	M WThF	SL 1224	Fanning
320a-3	Fundamental Concepts of Algebra		150b	
001	12:30-1:20	M W F	SL 3225	Lindstrum
002	1:30-2:20	M W F	SL 0226	Ousler
324-3	Vector Analysis		252b, Phys 211a	
001	12:30-1:20	M W F	PB 0406	Garder
E002	8:30-9:45	M W	SL 1225	Sturley
410a-4	Statistical Analysis		GSD 114a	
E001	4:30-6:20	Tu Th	SL 1225	Rutledge
446b-3	Structure of Mathematics		Consent of instructor	
E001	6:30-7:45	Tu Th	SL 1224	Holder
452a-3	Advanced Calculus		252b	
001	1:30-2:20	M W F	SL 1225	Haimo
E002	6:45-8:00	M W	SL 1210	Hughs
455a-3	Advanced Mathematics for the Physical Sciences		305b or consent of instructor	
E001	6:30-7:45	Tu Th	SL 0226	Garder
458a-3	Finite Mathematics		252a or consent of instructor	
E001	6:30-7:45	Tu Th	SL 1225	Rutledge
475a-3	Numerical Analysis		305a or consent of instructor	
E001	8:30-9:45	Tu Th	SL 1224	Goering
480a-4	Probability		252b	
E001	6:30-8:20	Tu Th	SL 1210	Rutledge
520a-3	Modern Algebra		320	
E001	8:30-9:45	M W	SL 1224	Poynor
550c-1 to 10	Seminar in Analysis		Consent of faculty chairman	
Arranged				
555a-3	Complex Variables		452c	
E001	4:30-5:45	M W	SL 1224	Bennewitz
595-1 to 10	Special Projects		Consent of faculty chairman	
Arranged				
599-1 to 9	Thesis		Consent of faculty chairman	
Arranged				



Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			

## MUSIC (MUS)

001a-1	Symphonic Band					By audition
001	12:30-2:20	M	W	F	CB 1029	Fjerstad
002	12:30-1:20	M	W	F	CB 0158	Mellott
001b-0	Stage Band					By audition
001	10:30-11:20	Tu	Th		CB 1029	Mellott
002c-1	Male Chorus					
001	2:30-3:20	Tu	Th		CB 0158	Van Camp
002d-1	Women's Glee Club					
001	1:30-2:20	Tu	Th		CB 0158	Van Camp
002e-1	Southern Illinois University Community Choral Society					
E001	7:30-9:30	Tu			PB 1402	Van Camp
002f-1	Madrigal Singers					By audition
001	11:30-12:20	Tu	Th		CB 0158	Van Camp
002g-1	Concert Choral					By audition
001	11:30-12:20	M	W	F	CB 0158	Van Camp
003-1	University Orchestra					By audition
E001	8:00-10:00	Tu			CB 1029	Kendall
010a-1	Class Strings					
001	10:30-11:20	Tu	Th		CB 0194	Perry
	8:30-9:20		Th		CB 1029	
010b-1	Class Woodwinds					
001	9:30-10:20	M	W		CB 1029	
002	10:30-11:20	M	W		CB 1029	
	8:30-9:20		Th		CB 1029	
(Section 001—clarinets; Section 002—flutes, oboes, bassoons)						
010c-1	Class Brass					
001	1:30-2:20	Tu	Th		CB 1029	Fjerstad
	8:30-9:20		Th		CB 1029	
010e-1	Class Piano					
001	1:30-2:20	M	W	F	PB 3406	Henderson
(For non-Music majors)						
002	2:30-3:20	M	W	F	PB 3406	Henderson
(For Music majors; 1st year in Class Piano)						
003	3:30-4:20	M	W	F	PB 3406	Henderson
(For Music majors; 2nd year in Class Piano)						
010f-1	Class Voice					
001	12:30-1:20	Tu	Th		CB 0158	Joseph
105a-4	Theory of Music					010e or piano proficiency
001	8:30-9:20	MTuW	F		PB 3406	
002	11:30-12:20	MTuW	F		PB 3406	
Student must work in Theory Laboratory a minimum of one hour each Thursday.						
140a through t-2 to 4	Private Applied Music					Majors only or consent of instructor
001	Arranged					
a.	Violin					k. Piano*
b.	Viola					l. French Horn
c.	Cello					m. Trumpet
d.	String Bass					n. Trombone
e.	Flute					o. Tuba
f.	Oboe					p. Baritone
g.	Clarinet					q. Voice
h.	Bassoon					r. Organ
i.	Saxophone					s. Harpsichord
j.	Percussion					t. Harp
Each student enrolled in Private Applied Music for credit is required to attend Recital Class each quarter, unless excused by Applied teacher.						
Recital Class:		9:30-10:20	Th	CB 1003	Joseph	
* In addition to arranged lesson time:						
a. Selected piano students will be in accompanying Studio						
Studio:		3:30-4:20	Tu	CB 0160		
b. Students of Miss Slenczynska will be in a Studio Lesson						
Studio Lesson:		8:30-9:20	Th	CB 0160		
205a-3	Theory of Music					105c
001	9:30-10:20	M	W	F	PB 3406	
002	10:30-11:20	M	W	F	PB 3406	
Student must work in Theory Laboratory a minimum of one hour each Thursday.						
240a through t-2 to 4	Private Applied Music (See 140a through t)					3 quarters 140
001	Arranged					
300-3	Music Education—Elementary (For non-Music majors)					
001	2:30-3:20	M	W	F	PB 3404	Tulloss

# 34 MUSIC (MUS)

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
301a-3	Music Education (For Music majors)				Majors only
001		2:30-3:20	M W F	PB 3404	Tulloss
309a-3	Orchestration				205c
001		8:30-9:20	M W F	CB 0194	Mellott
326a-3	Analysis				205c or consent of instructor
001		10:30-11:20	M W F	CB 0194	Warren
340a through t-2 to 4	Private Applied Music (See 140a through t)				3 quarters 240
001	Arranged				
See requirements stated for 140a through t.					
355a-1	Chamber Music Ensemble—Brass				By audition
001		11:30-12:20	Tu Th	CB 1029	Fjerstad
355b-1	Chamber Music Ensemble—Woodwinds				By audition
001		11:30-12:20	Tu Th	CB 0194	Mellott
002		11:30-12:20	Tu Th	CB 0186	
003		11:30-12:20	M W	CB 0186	
355c-1	Chamber Music Ensemble—Strings				By audition
001		8:30-9:20	Tu Th	CB 0186	
355d-1	Chamber Music Ensemble—Percussion				By audition
001	Arranged			CB 0186	
357a-3	Music History and Literature				
001		9:30-10:20	M W F	CB 0194	Krestoff
414-2	Collegium Musicum				Majors only, consent of faculty chairman
001		4:30-5:20	Tu Th	CB 0194	Joseph-Warren
420-1	Music Education Practicum				
e001	Arranged				Brauer
440a through t-2 to 4	Private Applied Music (See 140a through t)				3 quarters 340
001	Arranged				
See requirements stated in 140a through t. Recital Class requirements applies to seniors only—not required of graduate students.					
In addition to arranged lesson time, selected piano students will be in accompanying studio:					
Studio:	3:30-4:20		Tu	CB 0160	
Piano students of Miss Slenczynska must concurrently enroll, by audition, in 461a or 461b.					
461a-3	Teaching Techniques and Materials Beginning and Intermediate Level				By audition
001	Arranged			CB 0160	
461b-3	Teaching Techniques and Materials—Advanced Level				By audition
001	Arranged			CB 0160	
465-3	Development and Teaching of Strings				
e001		5:30-7:50	Tu	CB 1029	Kendall
481-2 to 6	Readings in Music Theory				
001	Arranged				
482-2 to 6	Readings in Music History and Literature				
001	Arranged				
483-2 to 6	Readings in Music Education				
001	Arranged				
501-3	Introduction to Graduate Study in Music				
e001		5:30-8:20	M	CB 0194	Blakely
540a through t-2 to 4	Private Applied Music (See 140a through t)				3 quarters 440
001	Arranged				
Recital Class requirement shown in 140a through t is required of full-time graduate students. Part-time graduate students are excused from this requirement.					
In addition to arranged lesson time, selected piano students will be in accompanying studio:					
Studio:	3:30-4:20		Tu	CB 0160	
Piano students of Miss Slenczynska must concurrently enroll, by audition, in 461a or 461b.					
560-3	Seminar in Music Education				
e001		5:30-8:20	W	CB 0194	Tulloss
566-1	Instrumental Ensemble				By audition
001	Arranged				
567-1	Vocal Ensemble				By audition
001	Arranged				
599-2 to 6	Thesis				
001	Arranged				

# NURSING (NURS)

210-4	Nutrition				
e001		4:30-6:20	Tu Th	PB 0309	

Course No.—Hours	Descriptive Title	Edw.	Alton	E. St. Louis	Time	Days	Place	Instructor
325-8	Psychiatric Nursing							Majors only
001	8:30-12:20					MTu	F Hospital	Jenkins
	1:30-3:20					MTu	SL 2220	
363a-8	Medical Surgical Nursing							Majors only
001	8:00-12:20					WTh	Hospital	
	1:00-2:50					W	Hospital	
	1:00-1:50					Th	Hospital	
370-4	Organization and Development of Public Health							Majors only
E001	4:30-6:20					WTh	PB 0304	
375-8	Public Health Nursing							370, majors only
001	8:30-12:30					MTu	F Agency	Burton
	1:00-4:30					MTu	Agency	
385-1 to 4	Independent Study							
001	Arranged							

## PERSONNEL AND INDUSTRIAL RELATIONS (PERS)

450-4	Personnel Administration							Econ 210
E001	8:30-10:20					M W	PB 2410	C. Drake
452-4	Advanced Problems in Personnel Administration							Mgt. 285
001	10:30-12:20					M Th	PB 2410	Sobolik

## PHILOSOPHY (PHIL)

200-4	Types of Philosophy—An Introduction							
001	9:30-10:20					MTu	ThF	PB 1307
002	12:30-1:20					MTu	ThF	PB 1307
E003	8:30-10:20					Tu	Th	PB 2409 F. Marti
300-4	Elementary Metaphysics							Sophomore standing
001	10:30-11:20					MTu	ThF	PB 1414 Emblom
302-4	World Religions							Sophomore standing
001	3:30-5:20					Tu	Th	PB 0406 Murdoch
381a-4	History of Western Philosophy							Sophomore standing
001	9:30-10:20					MTu	ThF	PB 0411
484a-4	History of Western Political Theory (same as Govt 484a)							Junior standing
001	1:30-3:20					Tu	Th	PB 3315 Runkle
490-4	Special Problems							Consent of instructor
E001	6:30-8:20					M W	PB 3404	Livergood

## PHYSICAL EDUCATION (PE)

305-3	Physical Education for the Atypical Student							303
001	11:30-12:20					M W F	PB 0304	
201	9:30-10:20					M W F	Gym 102	Moehn
321-2	Methods of Teaching in Physical Education for Women							
001	3:30-4:20					Tu	Th	UC 1043
323a-3	Officiating Techniques							
E201	5:30-8:20					Tu	Gym 102	
341-3	Principles of Physical Education							
001	1:30-2:20					M W F	Tract 27	Showers
348-3	Camp and Community Leadership							
001	1:30-2:20					M W F	Tract 27	
349-2	Camping Education							
001	1:30-2:20					Tu	Th	Tract 27
350-4	Methods and Materials for Teaching Physical Education Activities in the Elementary School							
001	11:30-12:20					MTuW	F	UC 1043
E002	5:30-8:20					Tu	UC 1043	Moehn
355-2	Techniques of Teaching Swimming							
001	Arranged							Herrold
376-3	Emergency Care and Prevention of Athletic Injuries							
E001	6:30-8:20					M	Tract 27	Brick
402-4	Organization and Administration of Intramural and Extramural Activities							
001	9:30-10:20					M W F	Tract 27	
502-4	Foundations of Motor Skills							
E001	5:30-8:20					Th	Tract 27	Showers
509-4	Supervision of Health and Physical Education							
E001	5:30-8:20					Tu	Tract 27	Herrold
525-1 to 6	Readings in Physical Education							
001	Arranged							Herrold

## PHYSICS (PHYS)

206a-5	College Physics							GSD 114b
Lect A	11:30-1:20					Th	PB 3409	Walford



## 36 PHYSICS (PHYS)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
206a-5	College Physics			GSD 114b
Lab 001	11:30-1:20	Th	SL 1217	
211a-4	University Physics			Concurrent enrollment in Math 150b
Lect A	10:30-11:20	M W F	PB 0304	Slotboom
	10:30-12:20	Th	PB 0304	
Lect EB	6:30-9:20	M	PB 3409	Rockman
	6:30-8:20	F	PB 3409	
212a-1	University Physics Laboratory I			211a
001	2:30-5:20	Tu	SL 1217	Zurheide
002	2:30-5:20	W	SL 1217	
003	8:30-11:20	Tu	SL 1217	
E004	6:30-9:20	W	SL 1217	
300a-4	University Physics IV			206 or 211, concurrent enrollment in Math 252b
Lect A	9:30-10:20	M W F	PB 3409	Walford
	9:30-11:20	Tu	PB 3409	
300b-1	University Physics Laboratory IV			300a
001	9:30-12:20	Tu	SL 0212	Sanders
304-3	Thermodynamics			211b, Math 252b
001	1:30-2:20	M W F	SL 1212	Rockman
305a-4	Introduction to Electromagnetic Field Theory			211, Math 305a
E001	8:30-10:20	M W	SL 3225	Sanders
415a-4	Modern Physics			300a, Math 305
E001	6:30-8:20	M W	SL 0212	Boedeker
510a-3	Classical Mechanics			301
E001	8:30-9:45	M W	SL 0212	Hakeem

## PRODUCTION (PROD)

460-4	Production Management			Econ 210
001	8:30-10:20	M Th	PB 2306	Ingwersen
461-4	Methods Design and Work Measurement			Mgt 380
E001	8:30-10:20	M W	PB 2306	Ingwersen

## PSYCHOLOGY (PSYC)

211a-4	Principles and Methods of Psychology			GSB 201c
001	10:30-12:20	Tu Th	SL 2212	McLaughlin
002	10:30-12:20	M W	SL 2212	Ferguson
211b-4	Principles and Methods of Psychology			GSB 201c
001	9:30-11:20	Tu Th	PB 1412	McCall
301-4	Child Psychology			GSB 201c
001	9:30-10:20	MTuWTh	PB 3316	Skinner
002	12:30-2:20	M W	PB 3305	Kuenzli
303-4	Adolescent Psychology			GSB 201c
001	9:30-11:20	M W	SL 1210	McMahon
305-4	Introduction to Personality Dynamics			GSB 201c
001	1:30-3:20	Tu Th	PB 1307	Taliano
E002	6:30-8:20	Tu Th	PB 1307	Kuenzli
307-4	Social Psychology			GSB 201c
001	8:30-10:20	M W	PB 0413	Engbretson
311-4	Experimental Psychology—Learning			211a, b
001	1:30-3:20	M W	SL 2212	McLaughlin
313-4	Experimental Psychology—Motivation			311
001	1:30-3:20	Tu Th	SL 2212	Ferguson
320-4	Industrial Psychology			GSB 201c
001	2:30-4:20	M W	PB 1414	Daugherty
406-4	Learning Processes			
E001	4:30-6:20	M W	PB 1307	
409-4	History and Systems			Consent of ed div adviser
E001	6:30-8:20	M W	PB 2403	McMahon
431-4	Psychopathology			305 or consent of instructor
001	8:30-10:20	Tu Th	PB 2403	Taliana
E002	5:30-8:20	M	F* PB 0314	Walsh
432-4	Mental Hygiene			
E001	5:30-8:20	Tu	F* PB 2403	Harris
E401	5:30-8:20	M	F* ESL 221	Kuenzli
440-4	Theories of Personality			305 or consent of instructor
E001	5:30-8:20	M	F* PB 2412	O'Brien
451-4	Advanced Child Psychology			301, 303, or consent of instructor
001	12:30-2:20	Tu Th	PB 2403	Skinner
465-4	Group Dynamics and Individual Behavior			320 or consent of instructor
E001	5:30-8:20	W F*	PB 0411	Russo
473-4	Personnel Psychology			320 or consent of instructor
E001	8:30-10:20	M W	PB 0406	Daugherty

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
474-4	Psychology of Employee Relations			GSB 201c
E001	6:30-8:20	Tu Th	PB 1414	Daugherty
490-1 to 4	Independent Projects			Consent of instructor, consent of faculty chairman
001	Arranged			
501a-4	Pro-Seminar in General Psychology			Consent of instructor
E001	5:30-7:20	Tu Th	SL 2212	
520-4	Research Design and Inference I			211b or C Ed 420
E001	7:30-9:20	Tu Th	SL 2212	Brinkmann
541a-4	Psychodiagnostics I			520, consent of instructor
E001	5:30-8:20	W	SL 2227	Harris
541b-4	Psychodiagnostics I			520, consent of instructor
E001	5:30-8:20	M	SL 2227	Rochester
552-4	Experimental Child Psychology			451 or consent of instructor
E001	5:30-8:20	W	PB 3302	Skinner
590-1 to 4	Readings in Psychology			Consent of faculty chairman
001	Arranged			
591-1 to 4	Research in Psychology			Consent of faculty chairman
001	Arranged			

## QUANTITATIVE METHODS (QM)

210-4	Probability in Decision Making			GSD 114d
001	8:30-10:20	Tu F	PB 1414	Luan
002	8:30-10:20	M Th	PB 3302	Luan
E003	6:30-8:20	M W	PB 0409	

## RADIO-TELEVISION (R-T)

251-3	Survey of Broadcasting			
001	2:30-3:45	Tu Th	CB 0186	

## REHABILITATION (REHB)

480-2	Introduction to Rehabilitation			
E001	5:30-8:20	W	PB 2304	
541-2	Medical Aspects of Rehabilitation			480 or consent of instructor
001	3:30-5:20	Tu	PB 0411	
580-2	Practicum in Rehabilitation Services			480
001	Arranged			
585-4	Practicum in Rehabilitation Counseling			580, C Ed 537
001	Arranged			

## SOCIOLOGY (SOC)

301-4	Principles of Sociology			
001	12:30-1:20	MTuWTh	PB 1306	O. Collins
308-3	Statistics for Social Science			Junior standing or consent of instructor
001	2:30-3:45	Tu Th	PB 1414	Altes
320-4	Race and Minority Group Relations			
001	1:30-2:20	MTuWTh	PB 2304	Rudwick
333-4	Community Organization			301 or GSB 201b
001	11:30-12:20	MTuWTh	LB 0042	Teer
338-4	Industrial Sociology			301 or GSB 201b
E001	6:30-8:20	Tu Th	PB 0412	More
340-4	The Family			301 or GSB 201b
001	2:30-3:20	MTuWTh	PB 2304	Taylor
351-4	Sociology of Religion			301 or GSB 201b
001	3:30-4:20	MTuWTh	PB 1412	Remmling
405-4	Current Sociology			
001	1:30-2:20	M W	PB 3302	
	1:30-2:20	Tu Th	PB 3404	More
412-4	Sociological Research			
001	3:30-5:20	Tu Th	PB 3422	More
426-4	Social Factors in Behavior and Personality			
001	10:30-12:20	Tu Th	PB 0411	Campisi
519-4	Methodological Foundations of the Social Sciences			
001	9:30-10:20	TuWThF	PB 1304	O. Collins

## SOCIAL WELFARE (SOC W)

375-4	Social Work as a Social Institution			301 or GSB 201b
001	3:30-5:20	Tu Th	PB 0412	Irvine
383-4	Introduction to Interviewing			301 or GSB 201b
E001	6:30-8:20	M W	PB 1307	Irvine

\* First four Fridays only.

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton	E. St. Louis	Time		

481-4	Processes in Social Work	375 or consent of instructor		
E401	6:30-8:20	Tu Th	ESL 106	Teer

**S P E E C H (SPCH)**

104-4	Training the Speaking Voice	GSD 103		
001	11:30-12:20	M WThF	CB 2012	Carey
205-3	Principles of Argumentation and Debate			
001	1:30-2:20	Tu	SL 2227	Keeling
	1:30-3:20	Th	SL 2227	
224-4	Communicative Reading			
001	10:30-11:20	M WThF	CB 0186	Archer
301-4	Persuasion			
001	9:30-10:20	M WThF	CB 0186	
303-4	Business and Professional Speaking			
E001	6:30-8:20	Tu Th	PB 3303	

**S P E E C H P A T H O L O G Y A N D  
A U D I O L O G Y (SP & A)**

200-4	Phonetics			
001	1:30-2:20	M WThF	CB 2012	St. Onge
318-4	Voice and Cleft Palate			212
001	2:30-3:20	M WThF	CB 2012	
414-4	Anatomy and Physiology of Speech and Hearing Mechanisms			
001	9:30-10:20	M WThF	CB 2012	
	Additional meetings arranged			
428-4	Speech Correction for the Classroom Teacher			Senior standing
E001	5:30-8:20	Th*	CB 2012	Carey

**T H E A T E R (THEA)**

111c-3	Staging Techniques			
001	9:30-10:20	M W F	CB 2015	Vilhauer
204-4	Acting			
001	1:30-3:20	Tu Th	CB 2015	Birdman
410-3	Children's Theater			
001	3:30-4:45	M W	CB 2015	Archer

**V O C A T I O N A L - T E C H N I C A L  
I N S T I T U T E (VTI)**

E100-5	Data Processing Mathematics			
001	3:30-4:20	MTuWThF	PB 0306	
E401	5:55-8:10	M W	ESL 222	

**T E C H N I C A L A N D A D U L T  
E D U C A T I O N (T & A E)**

Non-credit courses.

Enrollment in these courses is arranged through Enrollment Office.

<b>English Review</b>				
E001	8:20-10:20	W	SL 0226	
E002	6:30-8:20	M	SL 0226	
E003	8:30-10:20	F	SL 0226	
<b>Reading Improvement</b>				
E001	8:30-10:20	Th	SL 0226	
E002	4:30-6:20	Tu	SL 0226	
E003	6:30-8:20	F	SL 0226	

\* First four Fridays only.



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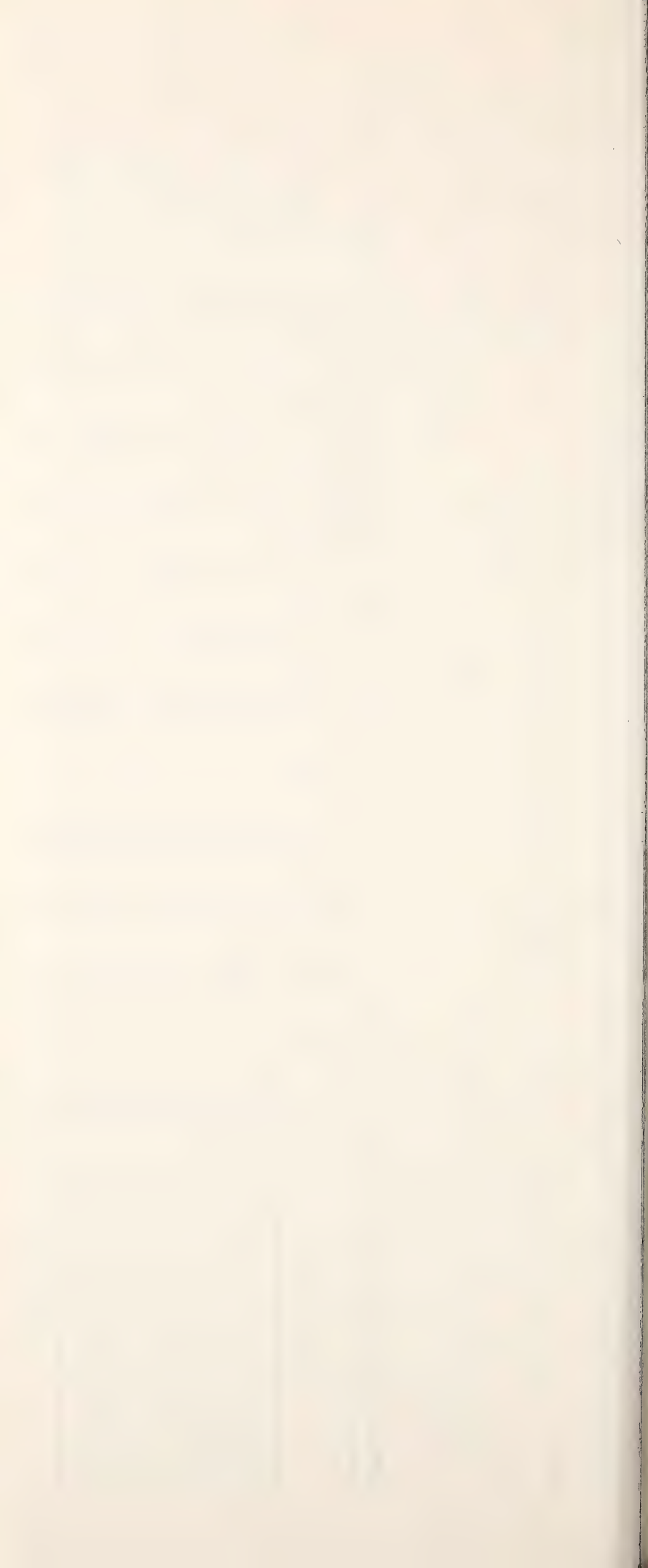
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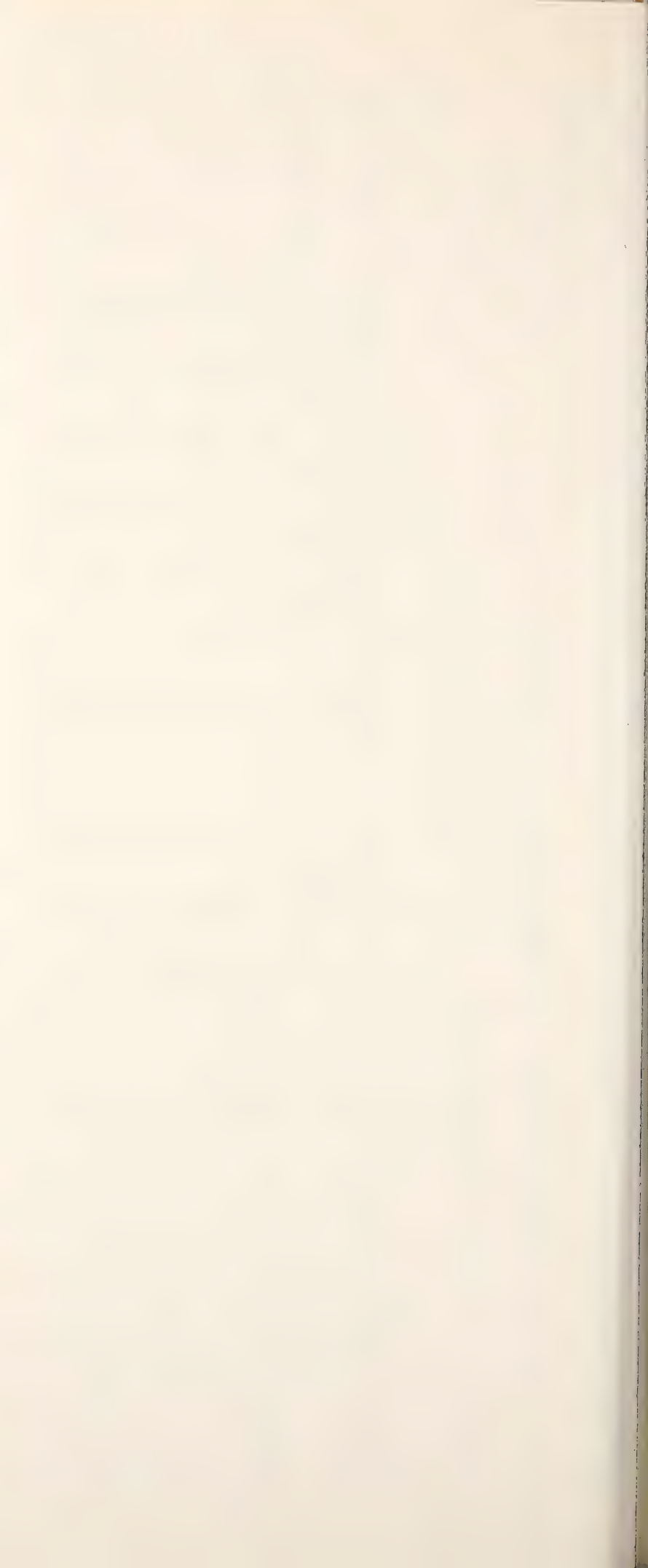
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Class \_\_\_\_\_ Day ( ) Evening ( ) Number of hours student works \_\_\_\_\_

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# Southern Illinois University *Bulletin*

*1967/1968 Student Work & Financial Assistance*  
*Carbondale/Edwardsville*



## OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

### TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

### TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

### TO FORWARD IDEAS AND IDEALS

*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

### TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*

# Southern Illinois University *Bulletin*

*1967/1968 Student Work & Financial Assistance  
Carbondale/Edwardsville*



**SOUTHERN ILLINOIS UNIVERSITY BULLETIN/Vol. 9, No. 9**

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## This Issue . . . . .

of the *Southern Illinois University Bulletin* provides information concerning student work and financial assistance and applies to both the Carbondale Campus and the Edwardsville Campus. It supersedes Volume 7, Number 9, *Financial Assistance*.

THE FOLLOWING issues of the *Southern Illinois University Bulletin* may be obtained free from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

Schedule of Classes. Please specify *quarter* (fall, winter, spring, or summer) and *campus* (Carbondale or Edwardsville).

Graduate School Catalog.

Division of Technical and Adult Education.

Student Work and Financial Assistance.

Undergraduate Catalog. The catalog is available for examination in high school guidance offices and libraries throughout Illinois and in some other states. Copies will be furnished free to educational institutions upon request and to new students upon matriculation. A copy of either edition (Carbondale or Edwardsville) of the catalog may be purchased at the University Bookstore for \$1; mail orders should be sent to Central Publications and must include remittance payable to Southern Illinois University.

# Contents

Board of Trustees and Officers of Administration .....	iv
<b>1 STUDENT WORK AND FINANCIAL ASSISTANCE .....</b>	<b>1</b>
The Purpose .....	1
General Eligibility Requirements and Application Procedures .....	1
Eligibility for Financial Assistance .....	2
Eligibility for Student Work .....	2
Application for Student Work .....	2
Application for Financial Assistance .....	2
<b>2 THE STUDENT WORK PROGRAM .....</b>	<b>5</b>
Steps in Securing Student Employment .....	5
On-Campus Student Work Program .....	5
Policies .....	5
Program of Cooperative Education .....	6
Federal Work-Study Program .....	7
Off-Campus Employment .....	7
Summer Employment .....	7
<b>3 THE FINANCIAL ASSISTANCE PROGRAM .....</b>	<b>9</b>
Scholarships, Awards, Prizes .....	9
Grants-in-Aid .....	10
Private Agency Awards .....	10
Student Loan Funds .....	10
Federal Assistance .....	10
National Defense Student Loan Program .....	10
Educational Opportunity Grants .....	12
Federal Nursing Student Loan Program .....	13
Public Law 358, Veterans Readjustment Benefit Act of 1966 ....	14
Public Laws 634 and 815 .....	15
State Assistance .....	15
United Student Aid Loan Fund .....	15
Illinois Guaranteed Loans .....	16
Illinois State Teacher Education Scholarships .....	16
State Scholarship Act .....	17
General Assembly Scholarships .....	17
County Scholarships .....	18
Vocational Rehabilitation .....	18
Illinois Military Scholarship .....	18
Governor's Committee for Veterans Rehabilitation and Employment .....	18
Named Scholarships, Awards, Grants, and Prizes .....	19
Southern Illinois University Foundation Funds .....	22
Named Student Loan Funds .....	22

# Board of Trustees and Officers of Administration

## BOARD OF TRUSTEES

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Programs



# 1 / Student Work and Financial Assistance

THE PRIMARY AIM OF THE Student Work and Financial Assistance Programs at Southern Illinois University is to provide an opportunity for students to enter and continue in the processes of higher education. The programs have been organized to function as an integral part of the total education experiences of the student who may lack financial resources and/or who may excel scholastically, or who may wish to develop skills in practical work situations. The programs assist students with financial obligations and contribute to their personal development and learning experiences.

The student work and financial assistance programs include part-time work on and off campus, cooperative work-study and summer employment, various forms of federal and state financial assistance (work-study, loans, grants, scholarships, awards, prizes), and private agency awards and loan funds.

There is a comparative limitation of such forms of assistance in terms of both number and amounts available; however, qualified students with financial need should make application for this assistance. The student may defray his educational expenses through a combination of his own work, his savings, his loans, and his family resources.

Persons who have met the requirements for admission to the University and are enrolled in good standing at the University are eligible for this assistance. Entering freshmen may make application for part-time work and some forms of financial assistance. Students with extreme financial need are given special considerations for a "financial package" of a loan, student work, and a grant in order for them to meet their university expenses.

The applications for both student work and financial assistance require the applicant to estimate his budget for the academic year in terms of both income and expenses. An estimate of certain expenses, including room and board, may be obtained from the Student Work and Financial Assistance Office or from the Admissions Office. Applications and information pertaining to student work and financial assistance are available at the Student Work and Financial Assistance Office on either campus.

## General Eligibility Requirements and Application Procedures

There are several forms of assistance available to students at the University. For specific eligibility requirements see the particular forms of assistance described in the bulletin.

*Request application forms for the type of assistance you desire* whether student work, a form of financial assistance, or both, from the Office of Student Work and Financial Assistance at the campus you are attending. Incoming students should be admitted to the University before submitting applications.

*Eligibility for Financial Assistance*

A student shall rank in the upper one-half of his high school graduating class or shall have demonstrated exceptional academic potential as exemplified by results from recognized entrance examinations.

A student already enrolled at the University or a transfer student shall, at the time of application for financial assistance, be in good academic standing.

A selected recipient shall continue to maintain good standing while attending the University; failure to comply with this ruling will normally result in discontinuation of financial assistance.

*Eligibility for Student Work*

Incoming students meeting the general admission requirements of the University and enrolled students maintaining good academic standing, who are considered full-time students, i.e., carrying 12 quarter hours during the academic year or 6 quarter hours during the summer quarter, are eligible to apply for student work.

A student worker is expected to maintain satisfactory scholastic standards. If a student ceases to maintain good standing, he is subject to being placed on work restriction or being dropped from the Student Work Program.

*Application Procedures for Student Work*

1. Submit application for part-time work at the campus you are attending.
2. Make appointment with a counselor in the Office of Student Work and Financial Assistance and secure a Work Schedule prior to your academic advisement for the term you plan to work.
3. Persons interested in clerical or stenographic positions will be referred to proficiency and/or aptitude tests before referral to a student job.
4. Students may be asked to participate in a student-work orientation program.

*Application Procedures for Financial Assistance*

*Submit your application for financial assistance.* Dual applications should be submitted if you need financial assistance for the summer quarter and for the fall quarter. (Do not apply for a specific scholarship or award.) The Scholarships and Loans Committee will evaluate each applicant in terms of his eligibility for all forms of available assistance. Applications to be considered for the summer or fall quarter must be returned to the Financial Assistance Office of the appropriate campus between January 1 and May 15.

Applicants for assistance to become effective in the fall will be notified of decisions concerning their applications during the summer prior to the opening of the fall quarter.

**IF YOU HAVE NOT ATTENDED A COLLEGE OR UNIVERSITY**

1. Apply for admission to the Admissions Office of the campus you plan to attend. Request that your high school principal forward a transcript of your high school record through your seventh semester. It is advisable that this be done shortly after the beginning of your final semester of high school.



2. Request an application for financial assistance from the Office of Student Work and Financial Assistance of the campus you plan to attend. Request that your high school principal complete the postal card accompanying this application. Arrange to take the test battery administered by the American College Testing Program (ACT). Information relative to testing dates may be obtained from your high school guidance director or principal or from the Registrar's Office of the campus which you plan to attend.

3. Then follow procedures outlined above for submitting applications.

IF YOU HAVE ATTENDED ANOTHER COLLEGE OR UNIVERSITY

1. Apply for admission to the Admissions Office of the campus you plan to attend. Request that the registrar of each school you have attended send a transcript of your record to that office. Applications for financial assistance cannot be considered prior to completion of these procedures.

2. Request an application for the financial assistance program from the Office of Student Work and Financial Assistance of the campus you plan to attend.

3. Then follow procedures outlined above for submitting applications.

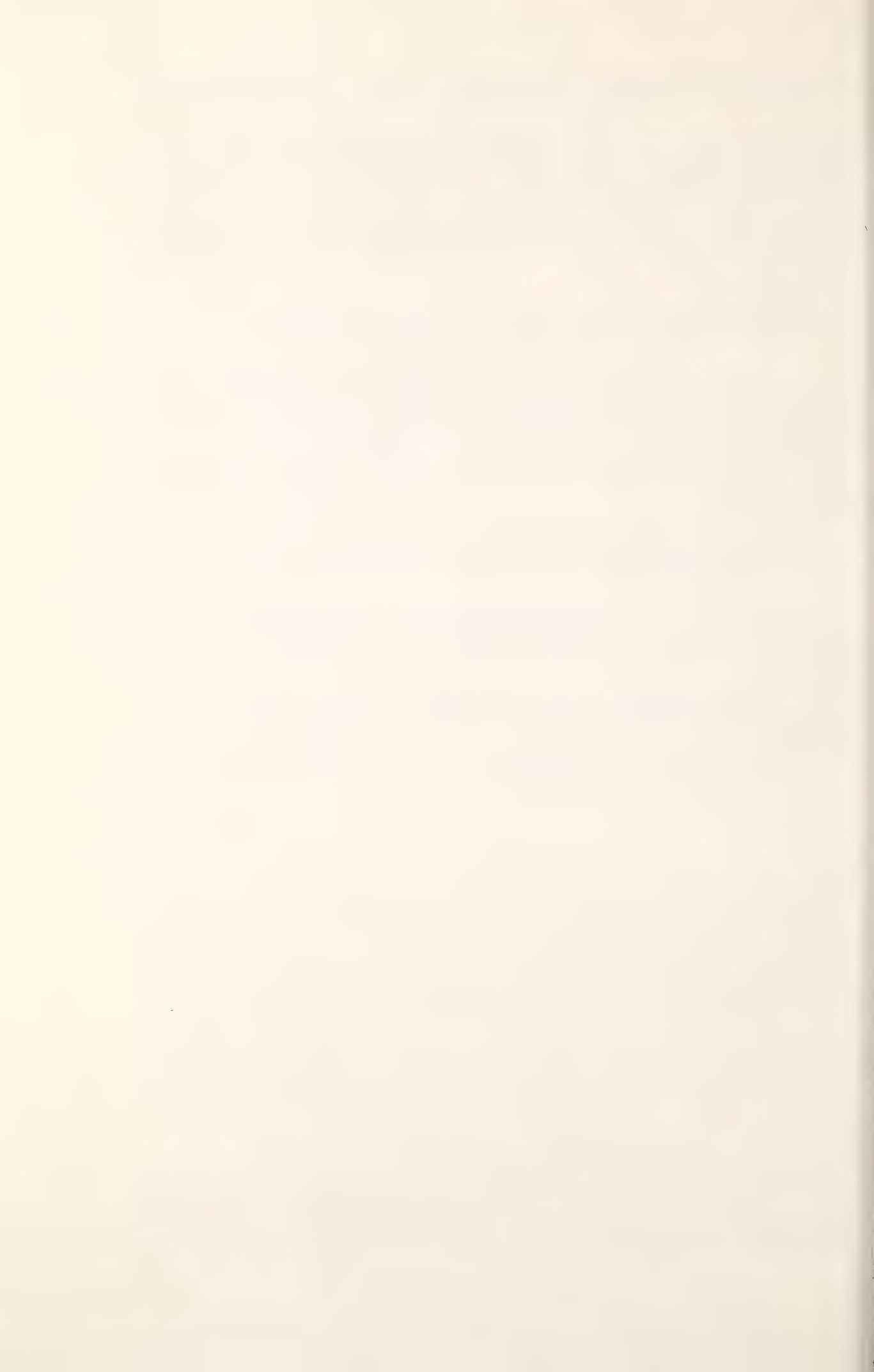
IF YOU ARE CURRENTLY ENROLLED AT SOUTHERN ILLINOIS  
UNIVERSITY

1. Determine whether you meet the minimum requirement for any of the forms of financial assistance currently available. Generally, scholarships require a minimum over-all university average of B, and awards require a C.

2. Obtain an application for the financial assistance program from the Office of Student Work and Financial Assistance of the campus you are attending.

3. Then follow procedures outlined above for submitting applications.





## 2 / The Student Work Program

THE STUDENT WORK PROGRAM PROVIDES an opportunity for practical work experience which is educationally worthwhile for any student, which contributes to the student's maturity and development, and which is, whenever possible, related to the student's academic program as a process of vocational guidance.

### Steps in Securing Student Employment

1. The student may secure and complete the application for student work and forward it to the Office of Student Work and Financial Assistance on the campus which he/or she is attending.

2. High school seniors should take steps to secure employment in the University's Student Work Program sometime during the last semester of their senior year (after admission to the University). As soon as possible after graduation from high school (or during the spring of the senior year), the student should make an appointment to come into the Office of Student Work and Financial Assistance for a personal interview.

3. Students are required to complete tax forms and the Broyles Affidavit.

4. Students should secure a Work Schedule from the student work counselor before academic advisement. The Work Schedule will assist in arranging a block of time so that the student will have two to four hours available for work each day.

5. The interviewer in the Student Work and Financial Assistance Office refers the student with an introductory Referral-Authorization form to a departmental supervisor for a job interview. Success depends to a great extent upon the student's own initiative.

6. Students are referred to jobs according to their skills, major field of interest, or special qualifications and financial need.

7. If the student is hired, the supervisor of the hiring department has the fiscal officer sign the authorization form which the student brings back to the Records section of the Office of Student Work and Financial Assistance for checking and approval.

### The On-Campus Student Work Program

Student jobs on campus are grouped into six major classifications. A student is employed and paid according to a job classification, the student's qualifications, work experience and training, and the need for the student worker. A wide variety of jobs is found in the On-Campus Program, ranging from the relatively unskilled work to highly skilled and sub-professional work.

#### *Student Work Policies*

It is possible for a qualified student to find a job in the Student

Work Program that is related to his academic major or to the student's individual talents. It may be necessary for freshmen or sophomore students to take further courses in college before being qualified for work related to an academic interest. It is the student's responsibility to keep in contact with the Office for transfer to academic related jobs when qualified.

Students have a recourse for consulting with the staff in the Office of Student Work and Financial Assistance concerning any questions, any irregularities in the work situations, or problems relating to their general welfare when student work is involved.

Many jobs require weekend work, and many require the student to work part of the vacation period between quarters. Some jobs, on an eleven- or twelve-month basis require that the student be enrolled in the University year-round.

All student workers are expected to fulfill their work authorization contracts, working through the period to the end of a quarter. If a student, prior to the end of a quarter, must quit his job for a legitimate reason, he is expected to give his supervisor at least two-weeks notice. The student is then terminated in "good standing." Exceptions to this policy may include family emergencies or ill health of the student which would necessitate immediate termination of employment. In such special situations the staff of the Office of Student Work and Financial Assistance will consider the circumstances and conclude what action shall apply. If the student's employment is to be terminated by the employing unit, he is expected to be given two-weeks notice.

Satisfactory performance of work obligations entitles the student worker to automatic pay increases at the rate of ten cents an hour after the first 500 hours of work; thereafter, automatic increases of ten cents will be given after every 1000 hours worked at a particular type of work.

Initiative, leadership, special skill, and outstanding performance may be rewarded by one merit increase of ten cents per hour for each nine-month period of employment until the student reaches the maximum for his job classification. Students who display these characteristics may be promoted to jobs which entail greater responsibility and be transferred to a different job classification with a higher wage.

Each year an evaluation of the student's work will be placed in his permanent record in the Office of Student Work and Financial Assistance. Supervisors and student workers are encouraged to discuss the evaluation before it is submitted to the Office.

Student payroll checks are issued every two weeks after the student is placed on the payroll. The hours of work for each student are determined by his academic schedule, his financial need, and the hours he is needed by the employing unit.

Students may be required to participate in an in-service training program.

### *The Program of Co-operative Education*

A pre-professional type of work experience is offered by Southern Illinois University in a Co-operative Program. This program, through an arrangement between various companies and Southern Illinois University, permits students to integrate classroom work with industrial work experience.

Those students who have completed at least one year of college work,



who are in good standing with the University, and who are in good general health may be considered for the program. Most companies are interested in students from all academic areas.

In the Co-operative Program, the student attends classes one quarter and works for the company the next quarter at a salary averaging as much as \$100 per week. By alternating quarters, it may take the student five years to finish his college degree.

### *The Federal Work-Study Program*

Under provisions of Title 1, Part C of the Economic Opportunity Act of 1964, there was established a College Work-Study Program. Southern Illinois University's Student Work Program has been a regular participant in the Federal programs in seeking the goal of making higher education available to all who are eligible, including both undergraduate and graduate students.

A student may determine his eligibility to work under the provisions of the Federal program by completing the declaration form used in ascertaining qualifications. This may be secured from the Office of Student Work and Financial Assistance. Eligibility is fundamentally contingent on the family income level as well as the regular characteristics required for student employment.

Students who qualify for the Federal Work-Study Program may be eligible for full-time employment during vacation periods and may work full time one quarter out of four, providing that they have worked on the program the previous quarter, that the University has need for such full-time employees, and that funds are available. Each additional quarter of full-time federally financed employment must be preceded by three quarters of work on the Federal work-study program. A student's eligibility for this program is determined by the Office of Student Work and Financial Assistance in conjunction with departmental needs.

Secondary school guidance personnel and administrators may recommend students to the Director of Student Work and Financial Assistance Programs. Qualified students with high academic potential, on being enrolled at the University, are given priority for job placement.

### **Off-Campus Employment**

Many students are assisted in finding work in business establishments and in private homes in the community and downtown Carbondale. Employment is sometimes obtained by the students themselves through direct contact with off-campus employers. Jobs are found in relation to qualifications, work experience, and skills of the individual student. The rates of pay vary according to the type of work.

There are a few homes where students earn room and board by performing housekeeping duties and child care or by doing odd jobs.

There are numerous calls for students to do odd jobs in private homes such as yard work, gardening, window and wall washing, floor waxing, maintenance work, baby sitting, etc. with a minimum pay equal to the base pay rate on campus.

### *Summer Employment*

The Office of Student Work and Financial Assistance also helps students gain valuable work experience during the summer vacation period by as-

sisting them in finding jobs. The Office of Student Work and Financial Assistance does not obtain a job for the student, as such, but aids the student in any way possible to secure a position. The office has application blanks for summer employment, letter-writing information, and information of summer employment opportunities.

The Student Work and Financial Assistance Office obtains as much material as possible each year concerning available summer jobs in other states, in industry, resorts, camps, hospitals, etc. Employing personnel for the above listings are on campus from time to time to interview prospective student employees.

Students who are seeking summer employment should begin to make application during the month of January. Those who apply early are usually more successful.

# 3 / The Financial Assistance Program

## Scholarships

Scholastic potential and financial need are the two most important criteria utilized in selecting recipients of scholarships. Freshman applicants must have ranked in the *upper third* of their graduating class and have achieved a minimum comprehensive high school average equal to that of *B*. Enrolled students at the University must have achieved a minimum over-all average of *B* for all course work completed at the University level.

The degree of need may also be used in determining the amount of assistance granted from a particular scholarships fund.

Other factors being equal, the students with the highest grade averages will be given preference in determining recipients of the scholarships.

The Southern Illinois University Board of Trustees has established 50 two-year tuition scholarships annually for the most deserving graduates of junior college programs in the state of Illinois. The *Southern Illinois University Junior College Scholarships* pay tuition only. To be eligible, a student must be a graduate of an Illinois Junior College, be in the upper quarter of his class or have a 4.00 grade point average, be a full-time student at the University—12 hours per quarter, and maintain a 4.0 grade point average while at the University.

## Awards

Financial assistance is available for students who have evidenced superior potential either at the high school or the university level in either scholarly or cocurricular endeavors. Freshman applicants for awards are required to have ranked in the upper half of their graduating class. Enrolled students must have achieved a minimum over-all average of *C* at the university level.

As a part of the award program, the Board of Trustees of the University has established tuition awards known as *Southern Illinois University Scholarship and Activity Awards*. Normally, this is the only form of scholarship or award assistance for which entering students may be considered other than state-wide or federal assistance programs.

## Prizes

Prizes may be awarded to students who have evidenced superior achievement in specific areas or departments of the University. These prizes frequently take the form of books, medals, or trophies rather than money and are presented at various times during the year. Eligibility varies



considerably from one prize to another. For further details interested students are invited to contact the specific departments or groups concerned with selecting the recipients.

### **Grants-in-Aid**

A grant is a form of assistance conferred on the basis of demonstrated financial need. Frequently, organizations or individuals establish funds at the University to assist certain students with their educational expenses. Specific criteria, including grade requirements, used for the selection of recipients of grants are established by the donor. Recipients of such aid should be full-time students and must be and continue to remain in good academic standing at the University.

### **Private Agency Awards**

Industries and private organizations may provide funds to individuals either directly or through the Scholarships and Loans Committee. The requirements relative to each of these awards are specified by the individual donors. Generally, applications are made directly to the donor; the University will assist interested students in applying for such awards.

### **Student Loan Funds**

There are four types of loan funds: university short-term loan and emergency loan funds, foundation loan funds, and state and federal loan programs.

Several short-term loan funds have been established for students with financial need. There are two basic requirements applicable to most of these funds: applicants must be full-time students and must be in good academic standing with the University. Freshmen and sophomores may borrow up to \$85. Juniors, seniors, and graduates may borrow up to \$150. The rate of interest and method of repayment vary with the particular loan fund. The usual rate of interest on funds administered directly by the University is three percent per year.

An emergency loan fund to meet certain financial obligations gives the student at Southern Illinois University an opportunity to borrow up to five dollars for a maximum period of two weeks without service charge. The student may borrow a maximum of ten dollars from the fund for the purchase of medicine.

In addition to university loan funds, there are private foundation loan funds with similar stipulations from which eligible students may borrow. The amounts, rates of interest, and method of repayment vary with the particular fund.

### **Federal Assistance**

#### *National Defense Student Loan Program*

The National Defense Student Loan Program, established under Title II of the National Defense Education Act of 1958, is a long-term program from which eligible and deserving students may be granted substantial loans to supplement other income for educational purposes.

## ELIGIBILITY AND TERMS

*United States Nationals.* Only undergraduate or graduate students who are United States Nationals (citizens or persons who are in the U.S. in a permanent resident status) are eligible to borrow under terms of this student loan program.

*Hours.* Undergraduate students must carry a minimum of eight hours per quarter. Graduate students must carry a minimum of six hours per quarter and four hours during the eight-week summer session.

*Scholarship.* An incoming freshman applicant must have ranked in the upper third of his graduating class to be considered for loan assistance. A freshman not meeting this requirement may make application during his first quarter of attendance and, if academically eligible as noted below, will receive payment at the beginning of the following quarter. Undergraduate students must have and maintain a 3.00 grade point average for all work at Southern Illinois University. A graduate student enrolling for the first time, must be unconditionally accepted to the graduate school and working toward a degree. Graduate students must have and maintain a 4.00 over-all grade point average and have a 4.00 grade point average for all work taken at Southern Illinois University.

*Need.* The primary condition of eligibility is the applicant's need of the requested loan to complete his course of study. The financial capabilities of both the applicant and his family (even in the case of a married student) will be evaluated in determining need. The University appreciates the fact that some students may wish to be financially independent, but this in and of itself does not justify need. A single student owning or possessing an automobile is requested not to seek assistance through this fund, unless he commutes or has other special circumstances.

*Amount of Loan.* The amount of the loan shall not be more than the borrower actually needs to make up the difference between his resources and his college-related expenses. In view of the estimated expenses at the University and the opportunity for part-time employment and scholarship and award aid, the normal maximum loan will be limited to \$250 per quarter for undergraduates and \$625 per quarter for graduate students. Whatever the actual need, the Act sets maximum limits of \$1,000 in any one academic year and \$5,000 in the aggregate for undergraduate students, and \$2,500 in any one academic year and \$10,000 in the aggregate for graduate students.

*Use of Loan.* A National Defense Student Loan will be used only for university-related expenses: tuition and required fees, books and supplies, room and board, ordinary and necessary personal maintenance.

*Special Consideration.* While making loans available to needy students in any field, the Act specifies that "in the selection of students to receive loans . . . special consideration shall be given to: (a) students with a superior academic background who express a desire to teach in elementary and secondary schools, and (b) students whose academic background indicates a superior capacity or preparation in science, mathematics, engineering, and modern foreign language."

*Promissory Note.* The borrower shall be required to sign a promissory note payable to Southern Illinois University.

*Interest.* No interest is charged while the borrower is in full-time attendance at an institution of higher education or during any period, not



exceeding three years, that he is serving in the armed forces of the United States. Simple interest at the rate of three percent per year on the unpaid balance will begin to accrue one year from the date the borrower ceases to be a full-time student.

*Repayment.* Repayment must begin not later than two years after a borrower ceases to be a full-time student at an institution of higher education. A schedule of installment payments commensurate with the borrower's financial status must be arranged at the time of his separation from the University. Repayment in accordance with a ten-year schedule of graduated periodic installments is the maximum permissible under terms of the Act.

*Cancellation Provisions.* The loan, and interest thereon, of any borrower who serves as a full-time teacher in a public elementary or secondary school is cancelled up to a maximum of fifty percent, at the rate of ten percent of the amount of the loan plus interest thereon, which was unpaid on the first day of such service, for each academic year of service. If teaching in a depressed area, the loan is cancelled up to 75 percent at the rate of 15 percent of the amount of loan plus interest thereon. If in military service or in the Peace Corps, repayment is deferred until such obligation is completed. The Act also provides that liability for repayment of the National Defense Student Loan is cancelled upon the death of the borrower, or in the event that he becomes totally and permanently disabled.

*Loyalty Oath.* Each applicant for a loan must subscribe to an oath of allegiance to the United States of America and this oath must be taken and subscribed to before a notary public or other officer authorized to perform such function under Illinois law. This must be done before the application can be considered.

*Married Students.* Students married less than one year are not eligible for loan consideration. However, they may apply with the understanding that they will receive no portion of the loan until they have been married for a year. Married students applying for loans offer an extraordinary problem of need assessment, because many extra expenses considered minimum for married status are difficult to classify as college-related expenses. Ordinarily, need will be measured on a standard of expectation of family-help and self-help along with the student's own presentation of his problem and estimated need.

*Applications.* Application forms may be obtained in the Office of Student Work and Financial Assistance. These applications should be returned to this office after being carefully and completely prepared by the applicant. Blank items will delay action on the application. The applicant will be informed of the Scholarships and Loans Committee's decision within a reasonable period.

### *Educational Opportunity Grants*

Educational Opportunity Grants are designed for students who are admissible to post-secondary institutions or who are enrolled in such institutions, who are in need of assistance to pay their college expenses, and who are in academic good standing. Within this group of students, those of exceptional financial need are eligible for the Educational Opportunity Grant Program, and those students from low-income families are to be given preference in the allocation of such Educational Opportunity Grants.



## ELIGIBILITY AND TERMS

*Eligibility.* To receive an Educational Opportunity Grant, the student must demonstrate extreme financial need; must have received or applied for a National Defense Student Loan; must be employed in the Student Work Program; must *NOT* be receiving benefits from the G.I. Bill or any other federal grants; must have the ability to complete the program of his choice.

*Amount of Educational Opportunity Grants.* The amount of the Educational Opportunity Grant cannot be less than \$200 or more than \$800 per academic year.

*Terms of the Educational Opportunity Grant.* The Educational Opportunity Grant is designed to aid students decrease the financial burden of their education, and the grant is not to be repaid. The only stipulation is that the student uses the grant with discretion for college-related expenses.

*Federal Nursing Student Loan Program*

The Nursing Student Loan Fund established under part B of Title VIII of Public Health Service Act as amended by the Nurses Training Act of 1964, is a long-term program from which eligible and deserving students may be granted substantial loans to supplement other income for educational purposes.

## ELIGIBILITY AND TERMS

*Grades.* High school seniors in the upper one third of their graduating class may apply for a loan during their last semester if they have been admitted to the University. Undergraduate students must have and maintain a 3.00 overall grade point average and a 3.00 grade point average for all work at Southern Illinois University.

The graduate students must have and maintain a 4.00 overall graduate grade point average and a 4.00 grade point average for all graduate work at Southern Illinois University.

*Hours.* Undergraduate students must carry a minimum of twelve hours per quarter and ten hours during the eight-week summer session.

Graduate students must carry a minimum of ten hours per quarter and six hours during the eight-week summer session.

*Miscellaneous.* Applicants must be enrolled in college-grade courses leading to an associate, bachelor's, master's, or doctor's degree.

Graduate students must be unconditionally admitted to the Graduate School and working toward a degree.

An applicant or recipient must not be on disciplinary probation.

Applicants must be citizens or nationals of the United States.

Students who attend summers only are not eligible to apply.

The law states that in designating a loan recipient, a school shall give preference to persons who enter a school of nursing as first year students after September 4, 1964.

*Basis of Loans (small).* In addition to the above-stated criteria, all recipients of loans will be determined on the basis of the financial need of the student. This need will also determine the amount of the loan granted during a given period. The amount of the loan shall not be more than the borrower actually needs to make up the difference between his resources and his college-related expenses.

*Use of Loan.* Nursing Student Loans will be used only for University-related expenses: tuition and required fees, books and supplies, room and board, ordinary and necessary personal maintenance. It shall not be used for car payments, marriage expenses, re-financing accumulated debts, moving to a place of employment, buying equipment to start a business, or buying a house. Students must present adequate justification for the possession or operation of an automobile at Southern Illinois University to be eligible for a loan.

*Married Students.* Applicants married less than one year at the time the first payment of the loan request would be due are ineligible for loan consideration. Married students applying for loans offer a unique problem of need assessment because many extra expenses considered minimum for married status are difficult to classify as college-related expenses. Ordinarily, need will be measured on a standard of expectation of family-help and self-help along with the student's own presentation of his problem and estimated need. Financial statements must be completed by both sets of parents.

*Terms.* In general terms, repayment of the principal of the loan, plus interest computed at the "going Federal rate," which for 1966 was 4½ percent per annum, is to be accomplished at the rate of ten percent per year, beginning one year after completion of, or withdrawal from, the educational program. The repayment schedule may be deferred up to three years if the borrower enters the military service. If possible, early repayment of the loan is encouraged. The borrower shall be required to sign a promissory note payable to Southern Illinois University.

*Cancellation Provisions.* The loan, and interest thereon, of any borrower who serves as a Professional Nurse in a nonprofit or public institution (including teaching in any of the fields of nurse training or service as an administrator, supervisor, or consultant in any of the fields of nursing) is canceled up to a maximum of fifty percent, at the rate of ten percent of the amount of the loan plus interest thereon, which was unpaid on the first day of such service, for each year of service. The Act also provides that liability for repayment of the Nursing Student Loan is canceled upon the death of the borrower, or in the event that he becomes totally and permanently disabled.

*Amount of Loan.* The maximum amount available to an individual borrower in an academic year is \$1,000.

*Restrictions.* A student who is enrolled in a school of nursing that participates in the Nursing Student Loan Program is prohibited by the Nurse Training Act of 1964 from receiving a loan from any other Federal loan fund.

*Applications.* Application forms may be obtained at the Student Work and Financial Assistance Office. The application must be returned to that office after being carefully and completely prepared (in ink or typed) by the applicant. Blank items will delay action on the application. The applicant will be informed of the Scholarships and Loans Committee's decision within a reasonable period of time.

#### *Public Law 358, Veterans Readjustment Benefit Act of 1966*

Any veteran who has served continuously on active duty for a period of at least 181 days, any part of which was after January 31, 1955, and who was discharged or released under conditions other than dishonorable is eligible. Depending on marital status and number of dependents, eligible



veterans may receive from \$50 to \$150 a month. Application forms and additional information concerning these benefits may be obtained from the Registrar's Office, the Veterans Administration, or the local Illinois Veterans Commission Office. Veterans are urged to apply for training at least two months prior to enrolling in the University.

Experience has shown that a period of two or three months elapses before a veteran participating in such a program receives his first check. It is advisable, therefore, that each veteran be prepared to finance himself during his first two or three months of attendance at Southern Illinois University.

#### *Public Law 634*

Benefits under Public Law 634 are available to the child or children of a person who died of an injury or disease incurred or aggravated in the line of duty in active service in the armed forces during World War I, World War II, or the Korean conflict and whose service did not terminate under dishonorable conditions. In addition, if the veteran's child served on active duty with the armed forces he must have been separated under conditions other than dishonorable.

Payments cannot be made while the veteran's child is serving on a tour of duty with the armed forces. In general the same rules apply to this law as to Public Law 358. Application forms may be obtained at the Registrar's Office, the Veterans Administration, or a local Illinois Veterans Commission office.

#### *Public Law 815*

Public Law 815 makes vocational rehabilitation training available to veterans who incurred disabilities as a result of service in the armed forces during the periods of July 26, 1947, to June 26, 1950, and February 1, 1955, to the present. If the veteran is receiving compensation from the government because of disability incurred during either of these periods, he is eligible to apply for vocational rehabilitation. Under Public Law 815, his tuition, fees, and subsistence will be paid through the Veterans Administration. Further information may be obtained from the Registrar's Office, the Veterans Administration, or a local Illinois Veterans Commission office.

### **State Assistance**

#### *United Student Aid Loan Fund*

The United Student Aid Loan Fund is a non-profit corporation which endorses low-cost loans made by hometown financial institutions to deserving students.

#### **ELIGIBILITY AND TERMS**

Students in good academic standing are eligible to apply for loans from local financial institutions which are members of the United Student Aid Fund, Inc., program. A student is eligible for this federal interest benefit if his family has an adjusted income of less than \$15,000 annually.

*Amount.* Undergraduates are eligible to borrow \$1,000 per year up to a total of \$4,000. Graduate students are eligible to borrow \$1,500 per year up to a total of \$4,000.

*Interest.* The student pays no interest while in college; there-



after, 3 percent simple interest a year. The U.S. Commissioner of Education under the provisions of the Higher Education Act of 1965 will pay the lending institution for the account of the borrower, the interest on eligible loans while a student is in school, and 3 percent simple interest during the student's repayment period.

*Repayment.* Repayment of the loan begins the first day of the tenth month after leaving school. U.S.A. Funds recommends a minimum monthly payment of not less than \$25 nor more than \$100.

### *Illinois Guaranteed Loans*

The Illinois General Assembly has authorized commercial lenders to make low-cost student loans to eligible students.

#### ELIGIBILITY AND TERMS

To be eligible to receive an Illinois Guaranteed Loan, a student must meet the following requirements.

He must be "enrolled." (This is the only academic requirement.)

He must be enrolled as a full-time student.

He must be one of integrity and capable of realization that the borrowed funds must ultimately be repaid in full.

He must be a bona fide resident of the State of Illinois. If during the twelve months preceding the application for a loan the borrower has resided with, been claimed as a dependent for income tax purposes by or was the recipient of \$500 from a parent or legal guardian, borrower shall be deemed a resident only if his parent or legal guardian has a permanent abode and dwelling place within the State of Illinois immediately preceding the commencement of his last period of continuous full-time study excluding summer school.

#### AMOUNT

Freshmen may borrow up to \$1,000. Upperclassmen may borrow up to \$1,500.

#### PROCEDURE

1. Applications for the Illinois Guaranteed Loan may be secured at the Student Work and Financial Assistance Office or any bank that participates in the program.

2. The student must complete the application.

3. The student must bring verification that he is a full-time student at Southern Illinois University.

4. The student must return the completed application to the Student Work and Financial Assistance Office.

5. Upon approval of the loan application by the Student Work and Financial Assistance Office, the application will be forwarded to the bank where the student indicates he wishes to make the loan. If he prefers, the student has the option at this time of forwarding the application to the bank himself.

### *Illinois State Teacher Education Scholarships*

State scholarships are awarded each year through the office of the State Superintendent of Public Instruction to selected students who plan to enter the teaching profession. Graduates of recognized high schools who are in the upper half of their graduating classes are certified by the

principals to county superintendents, who transmit these names to the Superintendent of Public Instruction. The superintendent, in turn, may award scholarships to the highest-ranking graduates who signify their intentions to prepare to teach. The scholarship covers tuition fee, student activity fee, and graduation fee.

Holders of these scholarships must apply for admission to the University not later than August 15 of the year in which the scholarship is awarded. Such a student must be registered in a teacher training program while using the scholarship. If a scholarship holder does not register for the next regular quarter following receipt of the scholarship, or if, having registered, he withdraws from the University, he forfeits his scholarship, unless he is granted a leave of absence by the University. Any student holding a scholarship who needs a leave of absence for the purpose of earning funds to defray his expenses while in attendance, on account of illness, or because of entrance into military service, may be granted such leave and allowed a period not to exceed six years in which to complete his course at the University. Request for a leave of absence should be addressed to the Registrar. A forfeited scholarship may be issued to the next highest-ranking student as shown on the list submitted to the Superintendent of Public Instruction.

*Recipients need to bring their scholarship certificates to the Registrar's Office as soon as possible after receipt of the scholarship and admission to the University.*

In addition to the regular Teacher Education Scholarships there are also the Junior College Teacher Education Scholarships, Special Education Scholarships, Teacher Education Scholarships for Adults, and fifteen scholarships for persons earning an average standard score of 50 or above on the General Educational Development Test.

Scholarships available to junior college graduates are awarded for a period of two years. Applications for Teacher Education Scholarships for Adults are available from the county superintendent of schools. Candidates should be certified as to proof of age (21 years or older), current residence in Illinois, intent to pursue undergraduate courses of study in preparation for a teaching career, proof of acceptance in college, record of American College Test scores, record of high school rank of G.E.D. scores.

### *State Scholarship Act*

The state scholarship program, which is applicable at Southern Illinois University, exempts the student from certain fees. Interested students should consult their high school office early in their senior year for information on the program.

In addition to the regular program, there is an upperclass award program for sophomores, juniors, and seniors at the University. To participate in this program, a student must apply in the spring and must be ineligible to participate in the regular program. Details may be obtained from the Student Work and Financial Assistance Office.

### *General Assembly Scholarships*

Each member of the General Assembly (Senator or Representative) may nominate annually two persons of school age and otherwise eligible, from his district, one of which shall receive a certificate of scholarship in the University of Illinois, and the other a certificate of scholarship in any



other state-supported university designated by the member. Interested students planning to attend Southern Illinois University should contact their Senator or Representative. This scholarship exempts the student from the paying of tuition, student activity fee, and graduation fee.

### *County Scholarships*

This program provides for the awarding of two scholarships annually in each county to qualified graduating seniors in high school. The recipients will be selected on the basis of a competitive examination: the test battery administered through the American College Testing Program (ACT). To be eligible, an applicant must be a resident of the county in which he applies. No student who has taken normal school, college, university, or other training following completion of a four-year high school course is eligible. Dates of application and procedures should be requested of the local high school principal or county superintendent of schools. This scholarship entitles the student to tuition, activity fee, and graduation fee for a period of four calendar years.

### *Vocational Rehabilitation*

Under the State Board for Vocational Education is a division for the vocational rehabilitation and placement in remunerative employment of persons whose capacity to earn a living is or has been impaired. This includes those with physical handicaps of various kinds. Approved students receive all registration and tuition fees, book rental, and school supplies for nine months per year.

Persons who wish to consult with a representative may call at any of the field offices. Field offices are maintained in Building C, Washington Square, on campus at Carbondale; in the Murphy Building, Collinsville Ave., East St. Louis; and at 307 Henry, Alton. Students from other parts of the state who are now receiving training through the Illinois Division of Vocational Rehabilitation may consult any representative of the Board.

### *Illinois Military Scholarship*

Any person who served in the armed forces of the United States during World War I or World War II (including all service between September 16, 1940, and an undetermined date to be established in the future) may be eligible for the benefits of the Illinois Military Scholarship. To be eligible a person must have been (1) a resident of Illinois at the time of entering the service; or, if not an Illinois resident, a student at Illinois State University, Northern Illinois University, Eastern Illinois University, Western Illinois University, Southern Illinois University, or the University of Illinois at the time of his enlistment or induction; and (2) honorably discharged or separated.

This scholarship is awarded for four calendar years. It may be used for resident or extension study and covers tuition, activity fee, and graduation fee. Application for this scholarship should be directed to the Registrar's Office and must be accompanied by a copy of the discharge or separation papers.

### *The Governor's Committee for Veteran's Rehabilitation and Employment*

This committee will assist any veterans, but gives aid primarily to ex-servicemen and ex-servicewomen with impaired health or with limited



physical abilities. Such persons may receive, at state expense, vocational training and education, plus health restoration treatments and prosthetic appliances. After proper training, they are given assistance in obtaining employment.

### Named Scholarships, Awards, Grants, Prizes

Abbott Foundation Grant-in-Aid  
Mary S. Abt Rainbow for Girls of Illinois Award  
Air Force Central Welfare Fund Grant-in-Aid  
Alpha Delta Sigma Advertising Award  
Alpha Kappa Alpha Sorority Scholarship  
Alpha Lambda Delta Graduate Fellowships Award  
Altrusa Club of Greater Charleston, South Carolina, Scholarship Fund  
Alumni Scholarship Fund  
American Chemical Society Scholar  
American Chemical Society Fellow  
Aileen S. Andrew Foundation Award  
Antioch Baptist Church Award  
The General Henry H. Arnold Educational Fund  
Ashrae Scholarship Fund  
Ashrae Scholarship Fund of the St. Louis Chapter of Ashrae, Inc.  
Austin Woman's Club Scholarship  
Aviston Chamber of Commerce Award  
Mary Louise Barnes Alumnae Scholarship in Home Economics  
Dr. James W. Barrow Memorial Scholarship  
Baseball Grant-in-Aid  
Jim Beam Memorial Scholarship Fund  
James Ford Bell Technological Award  
Beverly Hills University Club Scholarship Foundation  
B'nai B'rith Sports Lodge of Chicago Award  
Harry Bobbitt Memorial Scholarship & Award Fund  
Borden Freshman Prize  
Bowyer Hall Scholarship Award Fund  
Boys' Tri-Ship Club of New Trier High School  
Henry Bunn Memorial Scholarship Fund  
Frank A. Burgess Foundation Scholarship  
Business and Professional Women's Club of Gloucester County Scholarship  
Catholic War Veterans, Inc.  
Central Illinois Public Service Company Scholarship  
Champaign County Urban League Scholarship Fund  
Chemistry Graduate Fellowship Fund  
Cinderella Ball Scholarship  
Citizen's Scholarship Foundation Award  
Coleman High School Music Award  
Collinsville Education Association  
Collinsville Herald Journalism Scholarship  
Collinsville Lions Club Tuition Award  
Community Scholarship Fund of Teaneck  
William J. Cook Fund  
Cook Foundation Scholarship  
Copley Newspapers Scholarship  
Crab Orchard Kennel Club Award  
Creative Writers' Club Scholarship  
Mayor Daley Scholarship  
Student Bank—Gail Daniels  
Deerfield High School Scholarship  
Lovie Jackson Delgado Foundation Award  
Delta Theta Tau Scholarship in Home Economics  
Henry L. Doherty Educational Foundation Award  
Eastern Star of Illinois Grant-in-Aid  
Grand Chapter Order of Eastern Star Scholarship Grant  
East St. Louis Opti-Mrs. Club  
Educational Opportunity Grants  
Egyptian Funeral Directors Scholarship Funds

Egyptian Scholar Award  
Illinois Elks Association Award  
Elks Grant-in-Aid  
Elks National Foundation Scholarship  
Elementary Education Prize  
Elgin High School Student Body Scholarship  
Eureka Grand Chapter of Eastern Star Scholarship  
Exceptional Persons Development Fund  
Faculty Children Scholarship  
Faculty-Staff Aid to Students  
Federated Unity Club Award  
Formosa Student Fund  
Franklin High School Parent Teacher Association Grant-in-Aid  
Friends Foundation, Inc., Grant-in-Aid  
FS Services, Inc. Award  
General Foods Employees Recreation Association Award  
C. M. Gooch Foundation  
B. F. Goodrich Foundation Inc.  
Grand Guardian Council of Illinois I.O.J.D.  
Granite City Scholarships Foundation  
Green Acres Country Club Caddy Scholarship Foundation  
W. Arthur Hall Award Fund  
Home Economics Graduate Scholarship (L.W.)  
House of Kings Scholarship Award  
William A. Howe Grant-in-Aid for Teachers of the Mentally Retarded  
Illinois Association of Club Women, Inc. Scholarship  
Illinois Congress of Parents and Teachers Association  
Illinois Congress of Parents and Teachers Special Educational Scholarship  
District No. 25 Illinois Federation of Women's Clubs Scholarship  
Central Illinois Grant-in-Aid  
Illinois Health Improvement Association Scholarships  
Illinois Production Credit Association Award  
Illinois State Bowling Proprietors Association Scholarship  
Illinois Welfare Association District No. 10 Social Work Scholarship  
Department of Illinois Women Relief Corps, Inc. Scholarship  
International Student Award for Christian Service  
International Study and Travel Fund  
Jellison Benevolent Society Grant-in-Aid  
Jewel Tea Company Grant-in-Aid  
Job's Daughters Scholarship  
Larry Jones Scholarship Award  
Junior Achievement Award  
Junior Achievement of Chicago Scholarship  
Junior Achievement of Mississippi Valley, Inc.  
Junior Women's Clubs of Illinois Award  
C. Kandel Scholarship Fund  
John F. Kennedy Memorial Scholarship Fund  
The Unitarian Forum of Evanston John F. Kennedy Memorial Award  
Chicago Heights Kiwanis Club Award  
Wesley E. Kettelkamp Scholarship Fund  
Lambda State Foreign Fellowship Award  
Lawndale Civic and Educational Club Scholarship  
Limerick Finance Scholarship  
Little Grassly Award  
Elijah P. Lovejoy Memorial Grants  
Elijah P. Lovejoy Memorial Scholarship Fund  
Maine South Mothers' Club Scholarship Award  
Maine East Mothers' Club Scholarship Fund  
Larry Mann Advertising Scholarship  
Marathon Oil Foundation Award  
Mascoutah Tuesday Women's Club  
James Massa Grant  
Master Printers' Grant-in-Aid Fund  
Mathematics Award  
Joseph E. McElvain Memorial Foundation Award  
Edward A. Mellinger Education Foundation



MFA Foundation Scholarship  
Lavina Micken Memorial Fund  
Minneapolis Star-Tribune Journalism Scholarship  
Minneapolis Academy of Science Industrial Scholarship Fund  
Mississippi Project Students Grant-in-Aid  
Henry Mitchell Post 799  
MVSS Fund, Inc., Award  
National Scholarship Trust Fund  
National Society of Interior Designers Award  
NCAA Awards  
North Chicago Community High School Community Scholarship Fund  
North Shore Club Graphic Arts Scholarship  
Susie E. Ogden Scholarship  
Opportunity Grant-in-Aid  
Orford PTA Community Scholarship Fund  
Stanley R. Osborn Testamentary Trust Award  
Oziel Grand Chapter Order of Eastern P.H.A. of N.J. Scholarship Fund  
George M. Palmer Foundation Scholarship  
Park Manor Christian Church Award  
Pepsi-Cola Alton Bottling Company Grant  
Practical Nursing Award  
Presser Foundation Music Scholarship  
Princeton High School Scholarship  
Progressive Women's Club of Madison, Illinois  
Psi Iota Xi, Alpha Tau Chapter Grant-in-Aid  
Roscoe Pulliam Memorial Alumni Scholarship  
George M. Pullman Educational Foundation  
Quill and Scroll Foundation Scholarship  
Randolph County Education Association Grant-in-Aid  
Regency Motors Scholarship Award  
Regular Agency Board Rate  
Jean S. Rendleman Home Economics Scholarship  
Rockford Methodist Church Grant-in-Aid  
Rotary Club of Paramus, New Jersey Scholarship Fund  
Sahara Coal Company Awards in Forestry  
Saint Joseph League of Cahokia Student Fund  
Greater Saint Louis Science Fair Fund  
Saluki Award Fund  
Sandwichman Thompson Point Award  
Sandwichman University Park Award  
S & H Foundation Merchant Scholarship Program  
Clarence V. Scheel American Legion Post No. 292 Award  
School of Home Economics Special Scholarship Award  
Scottsburg Methodist Church Special Award  
Sigma Gamma Rho Sorority Grant-in-Aid  
Skokie Park District Student Recreation Council Scholarship  
Small Business Institute Scholarship Fund  
Society of Crippled Children & Adults of Sangamon County Award  
Southern Illinois Engineering Award  
Southern Illinois Reunion Council Award  
Southern Illinois Symphony Orchestra Awards  
Springfield Jaycee Scholarship Award  
St. Joseph Memorial Hospital Auxiliary Award  
Dr. T. A. Starzynski Scholarship Fund  
James H. Stoevers Memorial Fund for Retarded Children's Award  
Student Government Grant-in-Aid  
Student Opportunity Scholarship  
Tempo Scholarship Award  
Thompson Point Scholarship Award  
Topper's Club Award  
Transportation Club of Little Egypt Award  
Tri-County Electric Cooperative Scholarship Award  
New Trier High School Girls' Club Award  
Les Trieze Inc. Award  
Buddy Tuttle Memorial Scholarship  
University Women's Club Award



June Vick Memorial Scholarship  
Washington County H.I.A. Honor Award  
Watumull Foundation Grant-in-Aid  
Waukegan Township High School Award  
West Frankfort Business and Professional Women's Award  
West Frankfort Senior Women's Club Scholarship Fund  
Western Electric Scholarship  
Kathryn M. Whitten Trust Fund  
Winfield Jaycees Award  
WMAY Sportscasters Club Award  
Women's Physical Activity Award Fund  
General Robert E. Wood Scholarship  
Wood River Woman's Club Scholarship  
Woody Hall Scholarship  
Youth Bowling Championship Grant-in-Aid

#### **Southern Illinois University Foundation Funds**

William C. Ballowe, Sr., Memorial Award in Physics Endowment Fund  
Harlan D. Beem Memorial Lecture Fund  
Isabel Bothwell Scholarship Fund  
Lillian Burns Music Scholarship Fund  
Norman Caldwell Prize in History  
Chemistry Graduate Fellowship Fund  
Jerry Cobble Memorial Scholarship Fund  
Bob Cook Memorial Scholarship  
Gloria Credi Memorial Scholarship  
Mr. and Mrs. Richard F. Feeney Scholarship Fund  
Charles L. Foote Achievement Award in Zoology  
Raymond Foster Memorial Scholarship Fund  
Frances M. Hewitt, Sr. Scholarship in Art  
Home Builders Association of Egypt Tuition Award Fund  
William A. Howe Memorial Loan Fund  
Leo Kaplan Memorial Scholarship  
Thelma Louise Kellogg Scholarship  
Leland P. Lingle Memorial Fund  
Longnecker Award Fund  
Mallarme Prize Expendable Fund  
Mallarme Prize in French Studies  
J. Faye McCall Scholarship Fund  
Mu Phi Epsilon Music Award Fund  
Miller Natowitz, Paris Memorial Scholarship  
James E. Ozment Achievement Award in Natural History  
Alumnae Women's Physical Education Scholarship Fund  
Pi Kappa Sigma Memorial Alumnae Scholarship  
The President's Scholarship or Award Fund  
Leah N. Reef Memorial Scholarship  
Southern Illinois University Foundation Academic Excellence Award  
Frank F. Stamberg Memorial Award Endowment Fund  
Floyd Wakeland Memorial Award in Music

#### **Named Student Loan Funds**

Malvine Beck Educational Student Loan Fund  
W. O. Brown Student Loan Fund  
Tracey L. Bryant Memorial Loan Fund (Southern Illinois University Foundation)  
Cox Memorial Loan Fund  
The Thomas Clifford and Lora Alice Davis Memorial Fund (Southern Illinois University Foundation)  
James L. Feezor Athletic Student Loan Fund  
William and Mary Gersbacher Student Loan Fund (Southern Illinois University Foundation)  
David E. Harwood Memorial Student Loan Fund  
Jane Holloway Loan Fund  
Douglas Lawson Memorial Loan Fund

E. G. Lentz Memorial Student Loan Fund  
William McAndrew Memorial Student Loan Fund (Southern Illinois University Foundation)  
Robert R. McCormick Graduate Student Loan Fund  
Sue McLaughlin Fund  
Lionel Picheny Memorial Loan Fund  
C. A. Robertson Memorial Loan Fund (Southern Illinois University Foundation)  
Virgil L. Seymour Memorial Fund  
Shelby S. Shake Memorial Loan Fund  
Helen A. Shuman Memorial Fund (Southern Illinois University Foundation)  
Pearle Sherman Student Loan Fund (Southern Illinois University Foundation)  
The Stillman J. Stanard Memorial Student Loan Fund  
Mary M. Steagall Memorial Student Loan Fund (Southern Illinois University Foundation)  
Henry Strong Educational Foundation Loan Fund  
June Vick Memorial Loan Fund  
Letitia Walsh Loan Fund (Southern Illinois University Foundation)  
Lucy K. Woody Student Loan Fund (Southern Illinois University Foundation)  
  
Altrusa Club Student Loan Fund  
American Home Department of Herrin Women's Club Student Loan Fund  
Benton Student Loan Fund  
Carbondale Branch AAUW Loan Fund  
Carbondale Business and Professional Women's Club Loan Fund  
Carbondale Rotary Club Student Loan Fund  
Class of 1939 Student Loan Fund  
Delta Theta Tau Student Loan Fund  
25th District Illinois Federation of Women's Clubs Student Loan Fund  
Dowdell Residence Halls Alumnae Loan Fund  
General University and Men's Residence Halls Emergency Loan Fund  
General Student Loan Fund  
Harrisburg Women's Club Student Loan Fund  
Harwood Hall Student Loan Fund  
Householder's Loan Fund  
Illinois Congress of Parents and Teachers Loan Fund  
Illinois Guaranteed Loans  
Illinois Health Improvement Association Loan Fund  
Interfraternity Council Student Loan Fund  
Kappa Chapter-Professional Bookmen of America Memorial Loan Fund (Southern Illinois University Foundation)  
Marion Business and Professional Women's Clubs Loan Fund  
Men's Residence Halls Loan Fund  
National Defense Student Loans  
Printing Service Loan Fund  
Rosiclare Women's Club Student Loan Fund  
Sav-Mart College Student Program  
Senior Class of 1962 Loan Fund  
Southern Illinois University Alumni Association Student Loan Fund  
Southern Illinois University Women's Club Loan Fund  
United Student Aid Fund  
VTI Cooperative Retailing Loan Fund







### *SOUTHERN ILLINOIS UNIVERSITY FOUNDATION*

The Southern Illinois University Foundation is a non-profit corporation authorized to receive gifts and financial grants for the benefit of the University and to buy and sell property, and it renders service to the faculty in securing patents, copyright protection, and marketing outlets for inventions.



*One Dollar*

# Southern Illinois University *Bulletin*

*1967/1969 Undergraduate Catalog  
Carbondale Campus*





## OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

### TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

### TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

### TO FORWARD IDEAS AND IDEALS

*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

### TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*

# Southern Illinois University *Bulletin*

*1967/1969 Undergraduate Catalog  
Carbondale Campus*



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## This Issue . . . . .

of the *Southern Illinois University Bulletin* covers in detail questions concerning the undergraduate program and applies to the Carbondale Campus. It supersedes Volume 7, Number 10.

THE FOLLOWING issues of the *Southern Illinois University Bulletin* may be obtained free from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

Schedule of Classes. Please specify *quarter* (fall, winter, spring, or summer) and *campus* (Carbondale or Edwardsville).

Graduate School Catalog.

Division of Technical and Adult Education.

Student Work and Financial Assistance.

Undergraduate Catalog. The catalog is available for examination in high school guidance offices and libraries throughout Illinois and in some other states. Copies will be furnished free to educational institutions upon request and to new students upon matriculation. A copy of either edition (Carbondale or Edwardsville) of the catalog may be purchased at the University Bookstore for \$1; mail orders should be sent to Central Publications and must include remittance payable to Southern Illinois University.



# Contents

The University Calendar .....	v
Board of Trustees, Officers of Instruction .....	vi
<b>1 THE UNIVERSITY .....</b>	<b>1</b>
The University Libraries ... 2.	
<b>2 ADMISSION, ADVISEMENT, AND REGISTRATION .....</b>	<b>3</b>
Admission ... 3; Admission of Freshmen ... 3; Admission of Transfer Students ... 4; Admission of Foreign Students ... 4; Admission of Former Students ... 5; Advisement ... 5; Physical Examination ... 5; Registration ... 5; Tuition and Other Fees ... 6; Payment and Refunding of Fees ... 7; Academic Load ... 7; Unit of Credit ... 8; Class Standing ... 8; Grading System ... 8; Scholastic Standards ... 9; Scholastic Warning ... 9; Scholastic Probation and Suspension ... 9; Scholastic Honors Day ... 10; Special Programs for Credit ... 10; Credit for Military Experience ... 10; Extension and Correspondence ... 11; Plan "A" Curriculum ... 11; Individual Honors Work ... 11; Proficiency Examinations ... 12; Advanced Placement Program ... 12.	
<b>3 GENERAL STUDIES .....</b>	<b>13</b>
General Studies Requirements ... 13; Flexibility in Meeting General Studies Requirements ... 15; Advanced Standing ... 15; Proficiency Examinations ... 15; Course Substitution ... 16; Waiver of Third-Level Courses ... 16; The Transfer Student and General Studies ... 16.	
<b>4 INSTRUCTIONAL UNITS .....</b>	<b>19</b>
General Studies Division ... 19; College of Liberal Arts and Sciences ... 19; College of Education ... 21; School of Agriculture ... 22; School of Business ... 23; School of Communications ... 24; School of Fine Arts ... 24; School of Home Economics ... 24; School of Technology ... 25; Aerospace Studies ... 25; University Extension Services ... 29; Division of Technical and Adult Education ... 32; Community Development Institute ... 33; Labor Institute ... 33; Latin American Institute ... 33; Small Business Institute ... 33; Transportation Institute ... 33.	
<b>5 AREAS OF CONCENTRATION .....</b>	<b>35</b>
Fields of Study ... 35; Accounting ... 36; African Studies ... 37; Agricultural Education ... 37; Agricultural Industries ... 38; Agriculture, General ... 38; Animal Industries ... 39; Anthropology ... 39; Applied Science ... 40; Art ... 41; Asian Studies ... 43; Biological Sciences ... 43; Botany ... 45;	

Business Teacher Education . . . 45; Chemistry . . . 46; Community Development . . . 47; Design . . . 48; Economics . . . 48; Elementary Education . . . 49; Engineering . . . 50; Engineering Technology . . . 52; English . . . 52; Finance . . . 54; Foreign Languages . . . 55; Forestry . . . 55; Geography . . . 56; Geology . . . 58; Government . . . 59; Health Education . . . 59; Health Science . . . 60; History . . . 60; Home Economics . . . 61; Industrial Technology . . . 67; Instructional Materials . . . 68; Inter-American Studies . . . 68; Journalism . . . 69; Management . . . 70; Marketing . . . 70; Mathematics . . . 71; Microbiology . . . 72; Music . . . 72; Nursing . . . 75; Philosophy . . . 75; Photography . . . 75; Physical Education . . . 76; Physics . . . 77; Physiology . . . 78; Plant Industries . . . 78; Printing Management . . . 79; Psychology . . . 79; Radio-Television . . . 80; Recreation and Outdoor Education . . . 80; Religious Studies . . . 82; Russian and East European Studies . . . 82; Secondary Education . . . 83; Standard High School Certificate . . . 83; Standard Special Certificate . . . 84; Secretarial Studies . . . 85; Sociology . . . 85; Special Education . . . 86; Speech . . . 87; Speech Pathology and Audiology . . . 89; Student Teaching . . . 90; Technical and Industrial Education . . . 94; Theater . . . 95; Zoology . . . 96.	
6 DEGREES . . . . .	99
Graduation . . . 99; Associate Degrees . . . 99; Bachelor's Degrees . . . 99; University Convocations Requirement . . . 100; Preprofessional Programs . . . 100; Advanced Degrees . . . 101.	
7 STUDENT AND AREA SERVICES . . . . .	103
Student Services . . . 103; Office of the Dean of Students . . . 103; Counseling and Testing . . . 103; Student Housing . . . 104; Basic Student Housing Policy . . . 104; University Housing, Carbondale Campus . . . 104; University Housing, Edwardsville Campus . . . 105; Off-campus Housing . . . 105; Student Activities . . . 105; Student Guidebook . . . 105; Office of Student Work and Financial Assistance . . . 106; Health Services . . . 106; Placement Services . . . 107; International Student Services . . . 107; Cooperatives Clinical Services . . . 107; Bursar . . . 107; Identification Cards and Certificates of Registration . . . 108; Residence Regulations . . . 108.	
8 COURSE DESCRIPTIONS . . . . .	111
9 FACULTY . . . . .	217
College of Liberal Arts and Sciences . . . 217; College of Education . . . 220; School of Agriculture . . . 222; School of Business . . . 222; School of Communications . . . 223; School of Fine Arts . . . 224; School of Home Economics . . . 225; School of Technology . . . 225; Air Force ROTC . . . 225.	
INDEX . . . . .	227

# University Calendar

<i>FALL, 1967</i>	New Student Week	Sunday–Tuesday, Sept. 17–19
	Quarter Begins	Wednesday, September 20
	Thanksgiving Vacation	Tuesday 10 P.M.– Monday 8 A.M., November 21–27
	Final Examinations	Monday–Saturday, December 11–16
<i>WINTER, 1968</i>	Quarter Begins	Tuesday, January 2
	Final Examinations	Monday–Saturday, March 11–16
<i>SPRING, 1968</i>	Quarter Begins	Monday, March 25
	Memorial Day Holiday	Thursday, May 30
	Final Examinations	Monday–Saturday, June 3–8
	Commencement (Carbondale)	Friday, June 7
	Commencement (Edwardsville)	Saturday, June 8
<i>SUMMER, 1968</i>	Quarter Begins	Monday, June 17 *
	Independence Day Holiday	Thursday, July 4
	Final Examinations	Monday–Friday, August 26–30
	Commencement (Carbondale)	Friday, August 30
	Commencement (Edwardsville)	Saturday, August 31
<i>FALL, 1968</i>	New Student Week	Saturday–Monday, September 21–23
	Quarter Begins	Tuesday, September 24 *
	Thanksgiving Vacation	Tuesday 10 P.M.– Monday 8 A.M., November 26–December 2
	Final Examinations	Wednesday–Tuesday, December 11–17
<i>WINTER, 1969</i>	Quarter Begins	Thursday, January 2 *
	Final Examinations	Thursday–Wednesday, March 13–19
<i>SPRING, 1969</i>	Quarter Begins	Wednesday, March 26 *
	Memorial Day Holiday	Friday, May 30
	Final Examinations	Wednesday–Tuesday, June 4–10
	Commencement (Edwardsville)	Tuesday, June 10
	Commencement (Carbondale)	Wednesday, June 11

\* Classes begin with the evening classes after 5:30 P.M. on the Carbondale campus and with the evening classes after 4:30 P.M. on the Edwardsville campus.



# Board of Trustees and Officers of Instruction

## BOARD OF TRUSTEES

*Term expires*

Kenneth L. Davis, <i>Chairman</i> , Harrisburg	1969
Lindell W. Sturgis, <i>Vice-Chairman</i> , Metropolis	1971
Melvin C. Lockard, <i>Secretary</i> , Mattoon	1971
Martin Van Brown, Carbondale	1973
Ivan A. Elliott, Jr., Carmi	1973
Harold R. Fischer, Granite City	1969
F. Guy Hitt, Benton	1971
Ray Page ( <i>Ex-officio</i> ), Springfield	
Louise Morehouse, <i>Recorder</i>	

## OFFICERS OF INSTRUCTION

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# 1 / The University

SOUTHERN ILLINOIS UNIVERSITY is a multi-purpose and diversified university that, since its establishment in 1869, has sought to meet the educational needs of the times for the people which it serves as a public institution. It is fully accredited by the North Central Association of Colleges and Secondary Schools.

Though the student population has increased manifold from its beginning, the formation of schools, colleges, divisions, and departments within the University enables the institution to concentrate on the special interests of its individual students. The University in total size now ranks twentieth in the nation. It offers facilities and faculty to give general and professional training to students ranging from two-year programs leading to associate degrees to the doctoral degree level.

Because of the growing demand for educational opportunities in the Madison-St. Clair counties area, the University established the Alton Residence Center and the East St. Louis Residence Center in 1957, the former on the campus of what used to be Shurtleff College, the latter in a senior high school building.

During the year 1958-59, communities in Madison and St. Clair counties launched a drive that helped acquire a large central campus site on the outskirts of Edwardsville, Illinois, approximately twenty miles east of St. Louis, Missouri. From what was once farm land is now rising a complex of uniquely designed buildings which constitute the Edwardsville campus.

Thus, though Southern Illinois University is a single university, it has several campuses with the major designations being the Carbondale Campus, with its Vocational-Technical Institute and Little Grassy Lake installation, and the Edwardsville Campus, the latter including the East St. Louis Center, the Alton Center, and the Edwardsville campus itself.

## Carbondale Campus

The city of Carbondale (population 20,500) is in southern Illinois, 100 miles southeast of St. Louis, Missouri, in Jackson County, whose western border is the eastern bank of the Mississippi River. The region immediately surrounding Carbondale is noted for its large peach and apple orchards. Within ten miles of the campus there are two state parks and four lakes. The largest of the lakes is Crab Orchard Lake, four miles east of Carbondale. It has a shoreline of 125 miles and is frequented by students for swimming, water skiing, motor boating, sail boating, fishing, picnicking, camping, and hunting. Within the confines of the Carbondale campus itself is the University's own Lake-on-the-Campus with facilities for swimming, boating, fishing, and picnicking. Immediately south of Carbondale begins some of the ruggedest, most picturesque terrain in the state of Illinois.

Sixty miles north of Carbondale is the population center of the United



States, while sixty miles south is the colorful and historic confluence of the Ohio and Mississippi rivers, the two, forming the border of the southern tip of Little Egypt, the fourteen southernmost counties in Illinois.

The campus is undergoing extensive expansion. In addition to approximately seventy large permanent buildings and several hundred small temporary buildings, the following have recently been completed: the arena (seating capacity of 11,000 under a 300-ft. diameter dome), general classroom buildings, communications building, School of Technology complex of buildings, the University Park Residence Halls group (nine four-story residence halls and a seventeen-story residence hall, with complete dining facilities in adjacent dining commons), a physical science building, and a forestry research building.

Southern Acres, in the former administration area of the Illinois Ordnance Plant, contains the educational facilities of the Division of Technical and Adult Education, some apartments for married students, and some residence halls for single students.

The Little Grassy Lake facility consists of nine square miles of land adjacent to Little Grassy Lake and approximately seventy permanent structures. Although the programs conducted at Little Grassy are primarily devoted to instruction and training in recreation and outdoor education, many units of the University utilize its facilities in various ways.

### **The University Libraries**

Morris Library contains approximately 850,000 volumes (including bound government documents, bound periodicals, and books) and 7,000 current periodicals, plus collections of textbooks, newspapers, maps, films, framed art works, and phonograph records. With the exception of volumes in the rare book room, all books are arranged on open shelves available for browsing.

Recognizing the importance of good libraries in a college education, the University has given special attention to both quantity and quality of library development. More than one hundred thousand volumes were added to the library during the past year, placing Southern Illinois University high in growth among the nation's university libraries. The library is open long hours for the convenience of students, and comfortable chairs, individual study tables, and a quiet atmosphere encourages both study and recreational reading. Reference librarians throughout the library are available to assist students in locating materials. A handbook on library use is available free to all students and those desiring further instruction may enroll in a course on library research methods.

Morris Library houses four subject libraries (Education, Humanities, Science, and Social Studies), a Reserve Reading Room, an Audio-Visual Department, and a Textbook Rental Service. Microtext reading equipment is available in each subject library; hi-fidelity phonograph listening equipment is provided in the Humanities Library. A central card catalog of the entire collection is located on the first floor; books may be borrowed for home use from a central circulation desk on the first floor, using an automated charging system. An inexpensive photocopying service is available to students at the circulation desk.

Special libraries are also provided for the University Laboratory School; for the Vocational-Technical Institute, near Carbondale; and for the Outdoor Education Laboratory at Little Grassy Lake.



## 2 / Admission, Advisement, and Registration

IN ORDER TO attend classes at Southern Illinois University, one must gain official admission to the University and must complete the registration process, which includes specialized testing, advisement, sectioning, and payment of fees.

### Admission

Applications for admission to the University are accepted any time during the calendar year but should be initiated in ample time to permit the necessary work of processing to be completed.

#### *Admission of Freshmen*

To be eligible for admission, a person must be either a graduate of a recognized high school (graduates of nonrecognized high schools may be admitted by the Director of Admissions by examination), or must have passed the General Educational Development Test. A person seeking admission through the latter procedure will be considered only after his high school class would have graduated.

In-state high school graduates who rank in the upper half of their graduating class are permitted to enter any quarter. Those who rank in the upper two-thirds but who are not in the upper half may enter any quarter other than the fall. Those who rank in the lowest one-third may enter, on academic probation, either the summer or spring quarters provided that they show adequate scores on the University entrance examination. Graduates who rank in the lower half of their graduating class may qualify to enter either the fall or winter quarters by achieving high scores on the University entrance examination.

Out-of-state high school graduates who rank in the upper forty per cent of their graduating class will be permitted to enter any quarter, while those in the lower sixty per cent of their graduating class will be permitted to enter, on academic probation, during the summer quarter provided they show high scores on the University entrance examinations.

Both in-state and out-of-state lower-ranking students who elect to enter during the summer quarter can qualify for fall quarter attendance by carrying a minimum academic load of eight quarter hours and completing them with at least a *C* average. Otherwise, they may not do so.

Students will be considered for admission after completion of the sixth semester of high school. In addition to the high school record, students must furnish University entrance examination scores prior to their being admitted to the University.

All admissions granted students while in high school are subject to the completion of high school work and maintenance of rank upon which the admission was made.

A student entering the University as a freshman is enrolled in the General Studies Division (except one entering the Vocational-Technical Institute).

### *Admission of Transfer Students*

Students applying as undergraduate transfer students with a 3.00 grade point average are eligible for unconditional admission in any quarter. Students who do not have a 3.00 grade point average and who are in good academic standing at the school of last attendance will be considered for admission for summer, winter, and spring. Students who do not have a 3.00 grade point average and who are not in good academic standing at the school of last attendance will be considered for admission for summer or spring provided there has been an interruption of schooling of at least one quarter's duration and there is tangible evidence to indicate that additional education can be successfully undertaken by the student.

Transfer students suspended for any reason other than academic failure must be cleared by the Student Affairs Division before admission will be granted by the Director of Admissions.

Transfer credit is evaluated for acceptance towards University and General Studies requirements by the Registrar's Office after the admission decision has been made. The evaluation toward satisfaction of specific curriculum requirements is done by the department or agency directing the specific curriculum. General principles governing the acceptance of transfer work are as follows:

1. All transfer work is entered on the student's official record of academic work maintained in the Registrar's Office and continues to be applied to the student's total academic record.

2. Not more than one-fourth of the work accepted for application towards the number needed for graduation may be of *D* quality. Any *D* work not so accepted, however, may be used to satisfy general University, academic unit, or specific program course requirements when applicable.

3. Credit transferred on or after June 1, 1967, from an accredited two-year institution is limited only by the provision that the student must earn the last 96 quarter hours required for the degree at Southern Illinois University or at any other approved four-year institution, except the student must meet the residence requirement for a degree from the University. Conditions governing the acceptance of credit from four-year higher educational institutions also apply to acceptance from two-year institutions.

Further information on the application of transfer work towards satisfying General Studies and graduation requirements may be found on pages 13 and 99 of this catalog.

Transfer students presenting fewer than 64 quarter hours of acceptable work will be enrolled in the General Studies Division as will those with 64 to 96 hours whose areas of concentration are not yet determined. Others will be enrolled in the appropriate upper division academic unit in keeping with their expressed educational objective.

### *Admission of Foreign Students*

Each foreign student must submit, in addition to the regular admission papers, a questionnaire for foreign students showing all previous schooling. The foreign student must also submit an official statement showing sufficient proficiency in English to do successful college work. Such a student should make adequate provision for his financial needs; the University does not assume responsibility for a student who arrives with inadequate financial resources.



### *Admission of Former Students*

A former student of Southern Illinois University not in attendance on a campus at the close of the quarter preceding application for admission must apply to the Admissions Office for re-entrance prior to registration.

A former student who is not in good standing must clear his status before the Admissions Office will prepare his registration permit. It is advisable for such a student to initiate re-entrance clearance early so that all inquiries may be answered and so that the applicant can find time to complete any requirements that may be imposed upon him. (See Scholastic Standards on page 9 of this bulletin for further information.)

### **Advisement**

Academic advisement is administered by the academic units. Each unit employs a selected group of trained advisers devoting part-time duty to this function. They operate under the supervision of a chief adviser who is responsible to the dean of the academic unit.

Students currently in school make appointments for advisement at the start of each advance registration period. Students who are being admitted to the University receive information about advisement and registration as a part of the admission procedure. This includes a listing of specific dates during advance registration periods which are devoted to the advising and registering of new students. New students should not come to the campus and expect to be advised and to register without first having received an appointment to do so.

### **Physical Examination**

Each new student admitted as a full-time freshman or transfer student is required to have a physical examination performed by a private physician recorded on the form provided by the University. This must be accomplished prior to registration in the University. In case of a religious belief which is in conflict with this plan, special arrangements may be made with the director of the University Health Service.

### **Registration**

Students register for a quarter during the preceding quarter. Ordinarily, registration starts during the third week of a quarter and continues throughout the quarter. New students have certain periods set aside for them during the advance registration period for their advisement and registration. A limited period is provided at the start of each quarter for new students to register, but all students, new and continuing, are encouraged to advance register.

Registration for any session of the University is contingent upon being eligible for registration. Thus, a registration, including the payment of tuition and other fees, may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The enrollee may also be considered ineligible to register because of financial or disciplinary reasons if this is certified to the Registrar by the dean of the Student Affairs Division.

Detailed information about the dates and procedures for advisement



and registration appears in the Schedule of Classes, available from Central Publications.

Tuition and Other Fees

The fees charged students are established by the Board of Trustees and are subject to change whenever conditions make changes necessary. On June 29, 1967, the Board changed the fees for students taking fewer than 11 hours. The new fee schedule becomes effective with the winter quarter, 1968, (fees assessed during the fall quarter, 1967). In the table below, the shaded area becomes void, and the first two columns become effective. The third column remains in effect for students taking at least 11 hours.

	Not more than 5 hrs.	More than 5, less than 11	More than 8 11 or more	8 hrs. or less
Tuition Fee—Illinois Resident .	\$14.00	\$28.00	\$42.00	\$21.00
Tuition Fee—Out of State ....	(30.00)	(115.00)	(172.00)	(86.00)
Student Welfare and Recreation				
Building Trust Fund Fee ....	5.00	10.00	15.00	0.00
Book Rental Fee .....	3.00	6.00	8.00	4.00
Student Activity Fee .....	3.50	7.00	10.50	10.50*
University Center Fee .....	5.00	5.00	5.00	5.00
Total—Illinois Resident .....	\$30.50	\$56.00	\$80.50	\$40.50
Total—Out of State Resident ..	(46.50)	(143.00)	(210.50)	(95.00)

\* Optional for students taking 8 hours or less until winter, 1968.

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. A late registration fee, which is \$2.00 for the first day and which increases \$1.00 each day to a maximum of \$5.00 when a student registers after the regular registration period has ended.
2. A \$2.00 program change charge whenever a student changes his program from the one for which he originally registered, unless the change is made for the convenience of the University.
3. A graduation fee of \$17.00.

Students holding valid state scholarships are exempt from the above fees to the extent provided by the terms of the specific scholarship held. An Illinois State Teacher Education Scholarship, an Illinois Military Scholarship, or an Illinois General Assembly Scholarship exempts the student from the paying of tuition, the student activity fee, and the graduation fee.

The student activity fee includes the fees for limited hospitalization, entertainment, athletics, student publications, and such other privileges as may be provided.

Faculty members and university civil service employees taking courses are not charged tuition and activity fees. However, they pay all other appropriate fees.

Extension course fees are \$6.00 per hour plus a \$1.05 book rental fee per course.

Adult education course fees are computed on the basis of approximately sixty cents per contact hour.

Other charges which a student may incur are those for departmental field trips, library fines, and excess breakage. Also, a student taking a course involving use of materials, as distinct from equipment, will ordinarily pay for such materials.

A student registering for work on an audit basis is assessed fees on the same basis as when registering on a credit basis.

A student is entitled to a free transcript of his university record each time he has added academically to his record through work taken at this University, provided he has fulfilled all his financial obligations to the University. There is a charge of \$1.00 for each additional transcript.

#### PAYMENT AND REFUNDING OF FEES

Fees are payable quarterly during the academic year. A student who registers in advance receives a fee statement by mail and may pay either by mail or in person at the Bursar's Office in accordance with instructions accompanying the fee statement. A student who does not register in advance must pay fees at the time of registration.

Refunding of fees is possible only if a student has withdrawn from school, officially, within the first ten days of a quarter and only if the application for a refund is received in the Registrar's Office within ten school days following the last regular registration day. This means that for quarters starting on a Monday the withdrawal from school must have been officially made within the first two calendar weeks of the quarter and the refund application received by Monday of the third week. No refunding of fees is made for a withdrawal occurring after the first two weeks.

A student who originally pays full fees and then finds that he must reduce his program to 8 or fewer hours may receive a refund of one-half the tuition and book rental fee, provided the reduction is officially made during the first ten days of the quarter. Refund payment will be delayed in such case until after the fourth week of the quarter.

#### *Academic Load*

The normal academic load for a student is 16 hours. The maximum is 18 hours.

A student with a 4.25 grade point average or above for the preceding quarter may be allowed by the head of his academic unit to take as many as 21 hours. In no case may a student carry, or be credited with, more than 21 hours in any quarter.

A student on scholastic probation may not take more than 14 hours without approval of the head of his academic unit. A student employed full-time may not register for more than 8 hours.

Ordinarily, a student must carry 12 or more hours per quarter to be considered a full-time student. However, a number of programs may carry different requirements and a student attending the University under a scholarship, loan, or other type of program requiring full time enrollment, should check to make certain that he is meeting the requirements of his specific program. For example, Public Law 358 (the new GI Bill) requires 14 hours on the undergraduate level for full-time, 10 to 13 is considered three-quarter load, and 7 to 9 hours, half load. A student concerned with Selective Service on the undergraduate level needs to carry 12 hours to be considered full-time. However, for Selective Service purposes, a student must also be making satisfactory progress. Therefore, he needs to accumulate 48 passing hours each year. Because of this, he must consider 12 hours as only a minimum load for full-time purposes with 16 hours per quarter as the average load he must maintain throughout the year. Further information on both Public Law 358 and Selective Service is available in the Registrar's Office.



Unit of Credit

Southern Illinois University operates on the quarter system. Therefore, references to hours of credit mean quarter hours rather than semester hours. One quarter hour of credit is equivalent to two-thirds of a semester hour. One quarter hour of credit represents the work done by a student in a lecture course attended fifty minutes per week for one quarter, and, in the case of laboratory and activity courses, the stated additional time.

Class Standing

An undergraduate student is classified as a freshman, sophomore, junior, or senior, depending upon the number of hours he has successfully completed toward the degree. A freshman is a student who has completed fewer than 48 hours; a sophomore, from 48 through 95; a junior, from 96 through 143; and a senior, 144 or more.

Grading System

Grades are expressed in letters as follows:

	GRADE POINTS PER HOUR
A, Excellent .....	5
B, Good .....	4
C, Satisfactory (this is intended to be the average grade) .....	3
D, Poor, but passing .....	2
E, Failure .....	1
W, Authorized withdrawal with no basis for evaluation established. Work may not be completed. Approved grading symbol only on graduate level except for unusual circumstances where an academic unit dean recommends a change in grade from <i>Ab</i> to <i>W</i> for a student.	
Wp, Authorized withdrawal with passing grade.	
WE, Authorized withdrawal with failing grade.	
Inc, Incomplete. Has permission of instructor to be completed.	
Def, Deferred. Used only for graduate courses of an individual, continuing nature such as thesis or research.	
Ab, Unauthorized withdrawal. Same as <i>E</i> for academic retention purposes.	
S, Satisfactory. Used only for noncredit courses.	
U, Unsatisfactory. Used only for noncredit courses.	
Au, Audit. No grade or credit earned.	

A grade given at the end of a course is final and may not be raised by additional work.

All complete grades and the grades of *WE* and *Ab* are included in determining student grade point averages for academic retention purposes.

Authorized course withdrawals made through the program change process do not receive grades when made during the first four weeks of a quarter. Thereafter, authorized withdrawals receive *Wp* for withdrawal with a passing grade, *WE* for withdrawal with a failing grade, or *W* (for



graduate students only) when no basis for evaluation has been established.

Unauthorized course withdrawals which are made through failure of the students to continue in attendance receive a grade of *Ab*. An *Ab* grade for a student may be changed to a *W* in unusual circumstances upon the recommendation of the head of the student's academic unit.

An *Inc* grade may be changed to a completed grade within a time period to be designated by the instructor, not to exceed one year from the close of the quarter in which the course was taken; otherwise it remains as *Inc* and is not included in grade point computation.

A *Def* grade for course work of an individual nature such as research, thesis, or dissertation is changed to a completed grade when the project has been completed.

The grades of *S* and *U* are used to indicate satisfactory or unsatisfactory completion of a noncredit course.

A student registering for a course on an *audit* basis receives no letter grade and no credit. An auditor's registration card must be marked accordingly, and he pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for audit or credit may change to a credit status or vice versa through the official program change method during the first four weeks of a quarter. Thereafter the change may not be made.

The official record of a student's academic work is maintained in the Registrar's Office.

### *Scholastic Standards*

A student who fails to maintain a satisfactory grade point average will be placed in categories other than Good Standing and may be required to discontinue attendance at the University for a period of time.

For a transfer student, the following scholastic standards apply to his academic record at this University and to his over-all academic record.

#### SCHOLASTIC WARNING

A student who is in Good Standing will be placed in Good Standing-Scholastic Warning at the end of a quarter in which he fails to make a 3.00 grade point average provided he has calculated hours and an accumulative grade point average as follows:

1. Fewer than 96 calculated hours and less than a 3.00 grade point average.
2. 96 but fewer than 144 calculated hours and less than a 3.10 grade point average.
3. 144 or more calculated hours and less than 3.15 grade point average. He is returned to Good Standing at the end of a quarter in which he makes a 3.00 grade point average (or better) while on Good Standing-Scholastic Warning.

#### SCHOLASTIC PROBATION AND SUSPENSION

When a student on Good Standing-Scholastic Warning fails to make a

3.00 grade point average for a quarter, he is placed on Scholastic Probation and may be subject to suspension from the University for scholastic reasons at the end of any quarter in which he fails to earn a 3.00 grade point average while on Scholastic Probation.

To ensure that a student is making progress toward the 3.00 grade point average required for graduation he must maintain a progressively improving accumulative grade point average. At the end of each spring quarter a student who has accumulated the number of calculated hours listed below must also have obtained the corresponding accumulative grade point average:

<i>Quarter hours</i>	<i>Required average</i>
48– 95.5	2.40
96–119.5	2.70
120–143.5	2.80
144–159.5	2.90
160–	2.95

Otherwise he will be suspended from the University for scholastic reasons. He may seek reinstatement after a minimum of two quarters interruption but must furnish tangible evidence that additional education can be successfully undertaken.

### *Scholastic Honors Day*

In recognition of high scholarship, a Scholastic Honors Day convocation is held each spring. A candidate for a bachelor's degree in June or August who has maintained a grade point average of 4.25 or more for all of his work through the winter quarter of his senior year receives special honor. Each junior having a 4.25 grade point average and each sophomore and freshman having a 4.50 grade point average is also honored at the convocation. Except in the case of a graduating senior, a student must be attending full time to be eligible. A transfer student must have earned the average indicated for work at Southern Illinois University only, as well as for the total record. Graduating seniors are also recognized at commencement on the graduation program, and their diplomas designate honors granted on the basis of the accumulated grade point average as follows: Highest Honors (4.90 or higher), High Honors (4.75–4.89), and Honors (4.50–4.74).

### **Special Programs for Credit**

#### *Credit for Military Experience*

Students who have served one year or more of active duty and who have received an honorable discharge may receive up to 6 hours of aerospace credit at Carbondale; service of six months to one year may result in three hours of freshman aerospace credit; less than six months of active service does not allow any college credit. Credit so obtained does not satisfy any of the General Studies requirements.

Credit will be accepted for USAF courses within the limitations enforced for extension and correspondence work. No credit is allowed for college-level G.E.D. tests. In evaluating credit possibilities based upon formal service-school training programs, the recommendations of the American Council on Education as set forth in the U.S. Government bulletin, *Guide to the Evaluation of Educational Experiences in the Armed Forces*, are followed.



In order to receive credit for military service a veteran must present a copy of his discharge or separation papers to the Registrar's Office.

### *Extension and Correspondence*

A maximum of one-half of the number of hours required for the bachelor's degree, or 96 hours, may be taken by extension and correspondence courses combined. Of this total, not more than 48 hours may be taken in correspondence courses.

While Southern Illinois University does not maintain a correspondence division, courses taken by correspondence from institutions which are accredited by their appropriate regional accreditation association will be accepted if the grades are of C quality or better.

### *Plan "A" Curriculum*

Plan "A" has been created for the benefit of superior students who are interested in the objectives of general education as well as their own fields of specialization. Plan "A" consists of one 3-hour course per quarter. The courses, entitled Honors Seminar, are numbered as follows: Plan "A" 151-12, 251-12, 351-9, 391-9.

A student may have credit for one course for one quarter only, or he may stay with Plan "A" for all twelve quarters and accumulate a total of 42 hours of credit. If he does not do satisfactory work, he may be asked to withdraw from the plan at the end of a quarter.

It is hoped that these courses will aid the students in integrating and evaluating their other courses. It is to be hoped also that through these courses they will become acquainted with the broad concepts and the great issues that play important parts in our society. Some quarters will also be planned to give the students an intensive study of the entire culture of a century; for examples, the fifth century B.C., or the fourteenth century A.D.

Plan "A" courses may satisfy some of the General Studies requirements. For example, a student taking the complete Plan "A" Curriculum can substitute it for four courses in Area A and four courses in Area B. Partial completion of Plan "A" will reduce the amount of General Studies credit received.

Plan "A" House is open for study purposes for its students all day every day except Saturday and Sunday.

### *Individual Honors Work*

Individual honors work is available for the outstanding student who desires a heavier concentration of research and independent study during the junior and senior years than is provided by the regular curriculum. Department chairmen compile lists of students eligible or, through conferences, encourage qualified students to enter honors programs.

When a student is accepted for honors work, an advisory committee is appointed to direct his program. The committee approves the student's proposals for independent study and specific requirements in completing his course of study. The program may consist of not fewer than 9 nor more than 21 quarter hours in research or independent study towards his concentration. The student takes a comprehensive examination at the end of his junior year and again at the end of his senior year. Grades may be deferred at the end of the first and second quarters but not from one school year to the next.



### *Proficiency Examinations*

The University recognizes the importance of providing adequate encouragement for academically talented students. Thus, such students are permitted to make application to demonstrate the mastery of certain courses through proficiency examinations. Applications are made at the Registrar's Office.

The following general rules govern the proficiency examinations for undergraduate credit.

1. Any student who feels qualified to take a proficiency examination is eligible to do so; students scoring in the top ten percent of ACT are particularly encouraged to avail themselves of this opportunity.

2. Credit not to exceed 48 hours, including credit through the College Entrance Examination Board, Advanced Placement Program, may be earned through proficiency examinations. Credit will be nonresident.

3. Upon passing a proficiency examination in a course with a credit of "passing," a student will be granted regular credit toward graduation or toward any other legitimate objective. His record will show the name of the course, the hours of credit granted, and a notation "credit granted by proficiency examination"; however, this credit will be neutral in the calculation of grade point average. If a student fails a proficiency examination, his record will show nothing, but the report will be appropriately filed.

4. A student may not take a proficiency examination for the same course more than one time. Neither may he take a proficiency examination in a course in which he has previously received a grade.

5. No credit granted by proficiency examinations will be recorded until the student has earned at least 16 hours of credit of C grade or above in residence at Southern Illinois University.

6. A student applying to take a test for advanced standing only should initiate the request at an advisement office. No credit is recorded regardless of grade earned.

### *Advanced Placement Program*

A high school student who is qualified through registration in an advanced placement course in his high school or through other special educational experience may apply for advanced placement and college credit through the Advanced Placement Program of the College Entrance Examination Board, 475 Riverside Drive, New York, New York 10027. To receive credit, a person must earn the grade of 3, 4, or 5. Any interested high school student should write to the University's Admissions Office to learn the current listing of courses for which credit may be earned through this program.

Ordinarily, the maximum credit granted through advanced placement examinations is 16 hours. It is nonresident credit, does not carry a grade, and is not used in computing the student's average grade. Credit granted at another accredited college or university under this plan is transferable to this University up to a maximum of 16 hours. A student may appeal to his academic dean to be granted more than 16 hours.

# 3 / General Studies

THE GENERAL STUDIES curriculum provides a broad base of pertinent knowledge upon which a specialization can be built. It accepts the premise that a too narrow concentration within a field of study can deprive a person of the broader social and cultural understandings increasingly necessary for successful participation as citizens in modern society.

The General Studies curriculum possesses unique qualities and consciously involves the student during his advancing stages of academic endeavor. The first-level courses are planned sequences which a student takes during his freshman year. Second-level courses are normally completed during the sophomore and junior years, and the third-level courses are designed to complement the student's professional education program during his junior and senior years. The objective is to furnish the student with a carefully prepared mixture of generalized and specialized courses which complement each other in the educational development of the individual.

## General Studies Requirements

The General Studies curriculum is divided into five major subject areas. Area A is titled *Man's Physical Environment and Biological Inheritance* and acquaints the student with the sciences; Area B is named *Man's Social Inheritance and Social Responsibilities* and furnishes the student an opportunity for involvement in the body of knowledge commonly referred to as the social sciences or social studies; and Area C is known as *Man's Insights and Appreciations* and provides contact with the humanities. In each of these areas a student must take a total of 22 hours.

There are two additional areas: Area D, entitled *Organization and Communication of Ideas* requiring a total of 18 hours; and, Area E, named *Health and Physical Development*, which provides 6 hours.

Within each of the five areas, courses are structured in a manner so as to offer the student course sequences within the various levels. The student who has selected his area of concentration at the time he takes the General Studies courses is assisted in determining the proper courses to take by consulting the curriculum guides which he may obtain from his academic adviser.

### Area A *Man's Physical Environment and Biological Inheritance*

	HOURS
First-level basic sequence .....	8
Second-level continuation sequence .....	8
Third-level advanced courses .....	6
<i>Total hours</i> .....	<u>22</u>

The first-level basic sequence may be either 101-8, or Introduction to Physical Science 110-8, Earth Science.

Introductory Biology (201-8) is the second level-continuation sequence.



The third-level advanced courses may be any two of the following 3-hour courses, except not both 330 and 331. 301 (physiology); 302 (psychology); 310 (chemistry); 312, 313, 314, 315 (zoology); 321, 322 (geology); 330, 331 (geography); 303, 340, 345 (botany); 358 (technology); 361 (music); and 363 (philosophy).

*Area B Man's Social Inheritance and Social Responsibilities*

First-level basic sequence .....	8
Second-level continuation sequence .....	8
Third-level advanced courses .....	6
<i>Total hours</i> .....	<u>22</u>

The first-level basic sequence may be either 101-8 Survey of Western Tradition, or the anthropology-geography sequence 102-8 Man and His World.

The second-level continuation sequence may be either the sociology-psychology sequence 201-8, Behavior and Society, or the economics-government sequence 211-8 Political Economy.

The third-level advanced courses may be selected from the more than twenty-five courses in Area B numbered above 299.

*Area C Man's Insights and Appreciations*

First-level basic sequence .....	9
Second-level continuation .....	7
Third-level advanced courses .....	6
<i>Total hours</i> .....	<u>22</u>

The first-level basic sequence may be either 110-9, or three courses in philosophy, world literature and art, and either music or art (102-3, 103-3, and either 100-3 or 101-3).

The second-level continuation must include one course from this group of courses: 200 (speech), 201 (drama), 203 (theater), 204 (art), 205 (design), or 206 (music) and one course must be taken from these courses: GSC 202 (poetry), 207 (philosophy), 208 (logic), 209 (modern literature), or 210 (fiction).

The third-level advanced courses may be selected from 305 (French), 307 (government), 310, 311, 312, 363a, 381, 382, 383, 386, 387 (philosophy), 317, 318, 345-9, 351a,b, 365 (English), 320, 330, 331, 332 (foreign languages), 340, 341, 342 (art), 348, 349 (printing and photography), 357a,b,c (music). 300c may not be taken separately for General Studies credit.

*Area D Organization and Communication of Ideas*

Required composition and speech .....	9
Either a foreign language sequence or a basic mathematics sequence .....	9
<i>Total hours</i> .....	<u>18</u>

To assure composition competency, some upper division academic units require a C average in the three composition courses. A student may determine which units have this requirement by referring to Chapter 5 of this bulletin where the requirements of the various units appear.



Area E Health and Physical Development

First-level physical education .....	3
Second-level health education .....	3
Total hours .....	<div>6</div>

The physical education requirement for women may be satisfied by taking three courses within a wide variety of activity-type courses offered. Specifically required of men is GSE 102, Physical Fitness plus 2 additional hours in GSE activity courses.

The second-level health education requirement is satisfied by taking GSE 201 Healthful Living.

Flexibility in Meeting General Studies Requirements

Considerable latitude is permitted the student in meeting General Studies course requirements. The University believes in a strong, well rounded general education program but does not accept the idea that every student must take the same courses or program in meeting the objective. Alternate routes are, therefore, provided within the General Studies framework. These alternatives consist of providing different course sequences in a number of the areas, advanced standing, proficiency examinations, substitution of departmental courses for General Studies courses and waiver of third-level courses. Through these methods, a maximum of 90 hours of General Studies course work can be reduced.

ADVANCED STANDING

It is possible for a student to receive advanced standing consideration in Areas A, B, C, and D. This means that he might by-pass the basic sequences but without receiving credit.

Advanced standing consideration is determined from the student's test scores and high school subjects taken. Two types of score information are provided by ACT: the national college bound scores and Southern Illinois University predictive scores. If a student achieves a high enough percentile rank on both of these scores, he is eligible for advanced standing consideration. The percentile ranks required are adjusted from time to time and are currently set at 70 per cent for English, and 85 per cent for the other sub-test areas.

General Studies advisers explore a student's eligibility for advanced standing consideration when the student registers for the first time. Those areas in which he has had high school experience and in which he has achieved necessary test scores will be considered for advanced standing.

A relatively large number of students do secure advanced standing consideration. They are encouraged to take proficiency examinations in the same areas for credit.

Students who have participated in the Advanced Placement Program of the College Entrance Examination Board should not confuse the program with the University's advanced standing policy.

PROFICIENCY EXAMINATIONS

A second method for reducing the number of General Studies courses to be taken is through the proficiency examination process. By demonstrat-

ing the mastering of a course, a student receives credit without taking the course.

The proficiency examination program applies to other courses, as well as General Studies, and is described in detail on page 12 of this catalog.

#### COURSE SUBSTITUTION

The General Studies Division permits the substituting of departmental courses for the regularly prescribed General Studies courses on the first level whenever those courses offer the student the same subject matter and to a degree greater than that provided within the General Studies courses. For example, regular courses in physics and chemistry may substitute for the Area A first-level requirement. By taking the departmental courses the student is satisfying both the General Studies requirements and the specialized curriculum requirements.

General Studies advisers are familiar with the courses which have received approval to be substituted for the General Studies courses and will so advise students when they register.

#### WAIVER OF THIRD-LEVEL COURSES

The General Studies Division permits each curriculum within the University to request a waiver of the third-level 6 hours of advanced courses required in one of the Areas A, B, or C, for the students following that curriculum. The requested waiver needs to be in the area to which it is agreed that the curriculum itself is most closely related and which will, therefore, provide the student with continuing contact with the subject matter covered by the various General Studies courses provided on the third level in that area. Most curricula have specified the area of waiver on the third level, and the curriculum guides which are available through the student's adviser will indicate this waiver situation for the curriculum of his interest.

### **The Transfer Student and General Studies**

A transfer student who expects to graduate from Southern Illinois University must meet the General Studies requirements. It is recognized that in doing so he might experience difficulty in satisfying the specific course requirements as are provided within the General Studies Program. Therefore, he is required to meet all General Studies requirements but he may do so through different course routes.

A transfer student must complete 22 hours in Areas A, B, and C. If he presents 22 acceptable hours in an Area at the time of transfer and the work has been taken in a minimum of three specific fields included within that Area at this University he will be considered as having met the requirements of that Area. If he presents fewer than 22 hours within an area, he will be required to take sufficient hours to total 22 hours. The work will need to be taken in General Studies courses and is to be non-duplicative of work already taken. If he presents no work in one of these Areas, he is required to take the work in that Area on the same basis as does a student who entered Southern Illinois University originally.

In Area A, there is the further provision that the work in three minimum subject areas must include work in both the physical and biological

sciences. A transfer student is granted the same third-level waiver provision as are the native students in the area of his specialization so that he may satisfy one of the Areas A, B, or C by the taking of 16 hours in three specific fields of study rather than by taking 22 hours (see Waiver of Third-level Courses above).

A transfer student is held to the same hour and course distribution requirements as are native students in Areas D and E. These requirements are specified in an earlier section of this catalog.

Additional information concerning admission of a transfer student and the evaluation of transfer credit can be found in the sections of this catalog pertaining to those specific subjects.





# 4 / Instructional Units

## General Studies Division

JOHN W. VOIGT, *Dean*

*Man's Physical Environment and Biological Inheritance;  
Man's Social Inheritance and Social Responsibilities; Man's  
Insights and Appreciations; Organization and Communication  
of Ideas; Health and Physical Development*

All students entering the University as freshmen or as transfer students who have fewer than 64 quarter hours of acceptable transfer credit, except those who enter the Vocational-Technical Institute, are placed in the General Studies Division. While in the General Studies Division, a student experiences contact with several areas of knowledge which can assist him in the thoughtful selection of a professional goal. If the goal is already known, work on the professional area is permitted concurrently with the courses of the General Studies curriculum.

Students make formal application for admission into the appropriate University schools or colleges offering the specialized programs of their choice after they have accumulated 64 or more quarter hours of credit. They must initiate transfer into the appropriate advanced academic unit before enrolling in their junior year (96 quarter hours).

## College of Liberal Arts and Sciences

ROGER E. BEYLER, *Dean*

*Anthropology; Botany; Chemistry; English; Foreign Languages;  
Geography; Geology; Government; History; Mathematics;  
Microbiology; Philosophy; Physics and Astronomy; Physiology;  
Psychology; Sociology; Zoology*

The College of Liberal Arts and Sciences serves the students of Southern Illinois University in many capacities. Its instructional staff provides (1) training in basic subject matter courses of General Studies; (2) opportunity for concentration in many of the areas listed on page 35; (3) electives not available in other instructional units of the University; (4) extension and adult education offered through the appropriate divisions; (5) graduate-level instruction for students pursuing higher degrees than the baccalaureate; (6) preprofessional training needed for admission to such specialized schools as law, medicine, and dentistry.

The diversified offerings of the College of Liberal Arts and Sciences are designed to help the student achieve a balanced personality, an awareness of the cultures of the past, an appreciation of his fellow man, and a fundamental understanding of the ever-changing physical, social, and political environment in which he lives. A student in the college may prepare for teaching at the secondary level by including in his studies certain professional courses offered by the College of Education. The Bachelor of Arts or Bachelor of Science degree is granted to a student

who fulfills requirements for graduation from the College of Liberal Arts and Sciences.

### *College Requirements 1967-68*

Students who begin their collegiate training during the 1967-68 school year must satisfy the following requirements to receive a degree from the College of Liberal Arts and Sciences.

1. Competency in English as demonstrated by having completed courses GSD 101, 102, and GSC 103, or their equivalents, with grade average of *C* or better.

2. Successful completion of one year of a foreign language as demonstrated by any of the following methods: (a) joining a 9-hour 100-level sequence in one language; (b) completion of two years in one language in high school with no grade lower than *C* and achieving a satisfactory score on a standardized test in that language; or (c) completion of three years in one language in high school with no grade lower than *C*.

3. Successful completion of requirements in an approved area of concentration.

### *College Requirements Effective Fall 1968*

Students who start their collegiate training fall 1968 or thereafter and who desire a degree from the College of Liberal Arts and Sciences, must satisfy requirements 1 and 3 as listed above and successful completion of two years of a foreign language and one year of mathematics, or two years of mathematics and one year of a foreign language.

The one year foreign language requirement can be met as outlined in 1 above. The two year requirement can be satisfied by (a) passing a 9-hour 200-level sequence in one language; or (b) completion of three years of one language in high school with no grade less than *C* and achieving a satisfactory score on a standardized test in that language; or (c) completion of four years in one language in high school with no grade below *C*.

The one year mathematics requirement can be met by (a) passing GSA 108-9; or (b) passing Mathematics 111-10; or (c) completion of three years of high school mathematics with no grade less than *C* and achieving a satisfactory score on the University's Mathematics Placement Test. The two year requirement can be satisfied by passing Mathematics 150-10.

### *Areas of Concentration*

Each student should check with his academic adviser as to waivers or substitutions permissible in General Studies requirements for his particular area of concentration. Proficiency examinations, for which the student may receive University credit, are offered for many university courses. Proficiency exams are further explained on page 12 of this catalog.

The College of Liberal Arts and Sciences grants baccalaureate degrees in the following areas. Specific requirements for each area of concentration appear in Chapter 5.

Anthropology	East European Studies <sup>2</sup>	Government
Art <sup>1</sup>	Economics <sup>1</sup>	Health Science <sup>3 4</sup>
Asian Studies <sup>2</sup>	English	History
Biological Sciences <sup>3 4</sup>	Foreign Languages	Home Economics <sup>1</sup>
Botany	Geography	Inter-American Studies <sup>3 4</sup>
Chemistry	Geology	Mathematics



Microbiology	Physiology	Sociology
Music <sup>1</sup>	Psychology	Speech <sup>1</sup>
Philosophy	Religious Studies <sup>2</sup>	Theater <sup>1</sup>
Physics	Russian Studies <sup>2</sup>	Zoology

<sup>1</sup> These are liberal arts concentrations, not professional concentrations.

<sup>2</sup> Only secondary concentrations are allowed in these fields.

<sup>3</sup> Those who concentrate in these fields need no secondary concentrations.

<sup>4</sup> No secondary concentrations are allowed in these fields.

### *Preprofessional Courses*

A student planning to take preprofessional courses in any of the following areas should, after completing General Studies, register in the College of Liberal Arts and Sciences. A course of study called preprofessional does not lead to a degree at Southern Illinois University:

Dentistry	(3 or 4 years)	Pharmacy	(1 to 4 years)
Law	(3 or 4 years)	Physical Therapy	(2 or 3 years)
Medical Illustration	(4 years)	Public Health	(3 or 4 years)
Medical Technology	(2 or 3 years)	Theology	(2 to 4 years)
Medicine	(3 or 4 years)	Veterinary Science	(3 or 4 years)
Occupational Therapy	(2 or 3 years)		

### **College of Education**

ELMER J. CLARK, *Dean*

*Educational Administration & Supervision; Elementary Education; Guidance & Educational Psychology; Health Education; Higher Education; Instructional Materials; Physical Education for Men; Physical Education for Women; Recreation & Outdoor Education; Secondary Education; Special Education; Student Teaching*

The College of Education is committed to giving professional training to teachers of all subjects taught in the public schools and to supervisors, administrators, and specialists. The preparation of teachers for all grades from kindergarten through high school is the special function of the college. In its graduate offerings, however, it broadens its efforts to include professional work for prospective college teachers and several specializations in school administration and supervision. For most undergraduate students preparing to teach in high schools, the subject-matter courses will be taken in the other colleges and schools of the University, and the professional preparation for teaching, including the student teaching, will be taken in the College of Education.

At Southern Illinois University a high school graduate looking for a career in the educational world can prepare for high school, elementary, or kindergarten-primary teaching; for coaching; for positions in school administration; for guidance work; for teaching and supervising special education; and for other community services. He can prepare to teach in special fields such as art, music, home economics, industrial education, business, and agriculture. He can prepare to be a teacher of science, social studies, English, and mathematics. He can get a teaching specialization in specialized fields such as speech correction and general speech. He can dedicate himself, if he wishes, to the teaching of mentally handicapped children, the hard of hearing, or the partially sighted. Physical education

as a field attracts many able men and women, as do such newer fields as recreation and outdoor education. The graduate may look for a career in health education or in school counseling. He may prepare to be a principal or a superintendent by going on with graduate work, or even to be a teacher of teachers in some college or university.

The College of Education grants the Bachelor of Science and the Bachelor of Music Education degrees.

Supervised student teaching is conducted in cooperating public schools. The College of Education requires 12 to 16 hours of student teaching for the Bachelor of Science degree.

Students who wish to become principals or supervisors in the public schools take graduate work in the Department of Educational Administration and Supervision. The department's major emphasis is on graduate work, but it also participates in providing background for elementary and high school teachers.

### *Teaching Certificates*

Students preparing to teach in the public schools of Illinois should be informed that requirements for the Standard Elementary School Certificate are listed on page 49 under Elementary Education; those for the Standard High School Certificate are listed on page 83 under Secondary Education; those for the Standard Special Certificate are listed on page 84.

Students planning to teach on the early childhood and elementary levels register in the College of Education. Most students planning to teach on the high school level also register in this college. However, it is possible for a student to be registered in one of the other colleges or schools and meet the state requirements for a Standard High School Certificate by using as his electives certain prescribed courses in the College of Education. This is also true in the case of those seeking to qualify for a Standard Special Certificate.

Students qualifying for teaching certificates in Illinois should also know that no certificate issued after July 1, 1953, will be renewed for the first time unless the person holding the certificate passes an examination to the satisfaction of the certificating authority upon the provisions and principles of the Constitution of the United States and of the state of Illinois. This requirement may be fulfilled by completing either Government 231 and 300 or GSB 211b, or 300a.

### **School of Agriculture**

WENDELL E. KEEPPER, *Dean*

*Agricultural Industries; Animal Industries; Forestry;  
Plant Industries*

The School of Agriculture provides opportunity for the students to prepare themselves professionally through concentrating on study of agricultural and forest production and services and industries closely related thereto. Through teaching of formal courses, conducting research of significance to agriculture and forestry of the area, and providing consultation and service to the people of Southern Illinois in all phases of agriculture, forestry, and related occupations, the School of Agriculture strives to encourage better use of rural resources for the general welfare.

More than eighty-five per cent of Southern Illinois University's graduates in agriculture have entered such major employment areas as agri-



cultural business, advanced professional training for research and teaching, agricultural education, and government services. About ten per cent have gone into farming. Most forestry graduates have taken governmental or industrial positions.

As precollege preparation of high school students for study of agriculture and forestry, it is recommended that the following be included: four units of English, two to four units of mathematics (algebra, geometry, advanced mathematics); two to three units of science (biology, chemistry, physics); and two to three units of social studies. Remaining units might well include agriculture.

For transfer students wishing to pursue a concentration in one of the agricultural or forestry areas, courses taken prior to entering Southern Illinois University should include a distribution in the physical and biological sciences, social sciences, and humanities. In addition a course in speech and appropriate sequences in English composition and college algebra should be included.

The School of Agriculture grants the Bachelor of Science degree in the following areas. Descriptions of the concentrations appear in Chapter 5 of this catalog.

Agricultural Education	Forestry
Agricultural Industries	Forest Resource
Agricultural Economics	Management
Agricultural Business	Forest Recreation and
Agricultural Mechanization	Park Management
Agriculture, General	Plant Industries
Animal Industries	Production
Production	Science
Science	

A student planning to take preprofessional courses in veterinary science or dairy technology should register in the School of Agriculture when eligible.

School of Business

ROBERT S. HANCOCK, *Dean*  
*Accounting; Economics; Finance; Management; Marketing;*  
*Secretarial & Business Education*

The School of Business aims to prepare the student to perform successfully in business and other organizations that function in a changing social, economic, and political environment. The course work in the *Professional Business Core* has a twofold purpose: it assures a balanced preparation in the early study, and it provides a solid foundation for later specialization.

A student in the school may prepare for teaching at the secondary level by including in his studies certain professional courses offered by the College of Education. Individuals desiring to become executive secretaries enroll in the School of Business, take the business core, and pursue an area of concentration in Secretarial and Business Education.

*General Studies Requirements for Business Students.* Students who intend to enter the School of Business should take GSD 110. This satisfies the requirement in Area D for the School of Business. The prerequisite for GSD 110 is GSD 108-6 or Mathematics 111-10.

Requirements normally taken by students during the sophomore year



include GSB 211a, Economics 214, 215, and Accounting 251–12. These courses are initiated while one is enrolled in General Studies. After completing 64 hours in the General Studies Program, a student may apply for admission to the School of Business.

*Professional Business Core.* The Professional Business Core, required of all School of Business students, consists of GSB 211a, GSD 110, and 42 hours of credit in the following courses: Accounting 251–12, Economics 214, 215, Finance 320, 371, Management 340, 481, Marketing 225, 325.

### School of Communications

C. HORTON TALLEY, *Dean*

*Journalism; Printing & Photography; Radio-Television;  
Speech; Speech Pathology & Audiology; Theater*

The School of Communications provides the opportunity for students to specialize in the study of the various mass communications media and to develop skills in the utilization of those media.

The School of Communications is also engaged in research work in the various aspects of mass communications. It provides consulting and other services to area schools, newspapers, radio and television stations.

### School of Fine Arts

BURNETT H. SHRYOCK, *Dean*

*Art; Music; Design*

The School of Fine Arts serves as an instrument of the University for the direction of training and the stimulation of creative and professional work in the fine arts. It also serves students, enrolled in other academic units, who want an experience in the fine arts for either cultural or practical reasons. It offers undergraduate concentrations leading to the Bachelor of Arts or the Bachelor of Music degree.

The School of Fine Arts sponsors a number of special events each year. A Fine Arts Festival, which lasts several weeks, includes lectures by noted artists, musical ensembles, individual performances, dance recitals, dramatic presentations, and art exhibitions. A continuous planning of art exhibitions and an intensive series of public music performances are presented at no cost to students and faculty members. The Department of Music is an institutional member of the National Association of Schools of Music.

University Galleries, a campus wide activity in terms of the exhibitions of student and faculty work as well as traveling exhibitions, is under the jurisdiction of the School of Fine Arts.

### School of Home Economics

EILEEN E. QUIGLEY, *Dean*

*Clothing & Textiles; Food & Nutrition; Home & Family;  
Home Economics Education*

The objectives of the School of Home Economics are to provide instruction, to stimulate research, to provide service work in home economics for other educational units desiring it, and to give to the people in the area service which will help in improving the understandings and practices in their families and homes.

Students in the School of Home Economics may follow courses of study leading to the Bachelor of Science degree.

### School of Technology

JULIAN H. LAUCHNER, *Dean*

*Applied Science; Engineering; Engineering Technology;  
Industrial Technology; Technical and Industrial Education*

The School of Technology provides instruction in broad areas of technology. Through instruction, research, and consultative services, it serves Southern Illinois and has a growing responsibility in broader areas.

The courses of study in the School of Technology are designed to provide instruction and to stimulate research in all areas of technology. These courses of study serve to eliminate the barriers and to bridge the gaps between scientists, engineers, and technologists—between theories and their applications—between the creative and practical aspects, in the basic areas of science, engineering, and industry. Its course offerings provide:

1. Basic subject matter for development of the scientific and technological method and philosophy.
2. Preprofessional and professional training in the field of engineering.
3. Extension and adult education courses offered through the appropriate divisions of the University.
4. Graduate-level instruction for students pursuing higher degrees.

High school students preparing for study in the School of Technology should have four units of English, two and one-half to four units of mathematics (algebra, geometry, trigonometry), two to three units of social studies, and two to three units of science (biology, chemistry, physics); physics is especially recommended.

### Aerospace Studies

COL. EDWARD C. MURPHY, *Commander*

The Air Force Reserve Officers Training Corps Detachment at Southern Illinois University is a senior division ROTC unit administered by commissioned officers of the USAF who have been assigned by the Department of the Air Force with the approval of the University. These officers are appointed as members of the University's instructional staff. The senior officer is designated as Professor of Aerospace Studies and Detachment Commander. Airmen are assigned to assist in practical instruction and administration and to assist in the care of federal property. The University Corps of Cadets consists of all students pursuing AF ROTC training. General Military Course cadets retain their civilian status until they become fully qualified members of the Professional Officer Course, at which time they are enlisted in a special obligated Air Force Reserve Status.

The AF ROTC course of study is offered in either the two- or four-year program on the Carbondale campus and the two-year program only on the Edwardsville campus. The four-year program is divided into the General Military Course (GMC), covering the freshman and sophomore years, and the Professional Officer Course (POC), covering the junior and senior years. Cadets enrolled in the four-year program are required to attend a four-week summer training unit between their junior and



senior years. The two-year program commences, after satisfactorily passing mental and physical tests, an evaluation process, and completion of a six-week summer training unit prior to entry in the POC.

An additional facet and incentive of the four-year course is the Financial Assistance Program, a scholarship grant to several outstanding cadets entering the POC, covering tuition, books, fees, laboratory expenses, supplies, and an increased retention pay above that of other POC cadets. The courses are designed to provide the fundamental training, both personal and professional, which will best equip a cadet to become an effective junior Air Force officer possessing a high growth potential and also to develop and stimulate a growing desire on his part to enter the Air Force flight training program. The GMC is designed with two additional objectives in mind: first, to interest the cadet in the possibility of continuing in the advanced AF ROTC and ultimately making the Air Force his career; and second, to provide him with *Space Age* citizenship training of long-range value to the Air Force whether he returns to civil life or becomes a member of the USAF. Emphasis is given throughout both courses, primarily in the POC, however, both in theory and practice, to outlining the leadership and managerial duties and responsibilities of squadron level officers, to improving oral and written expression, and to learning techniques of the problem-solving process.

In addition to the AF ROTC programs offered for academic credit at the Carbondale Campus, the Department of Aerospace Studies indorses or directly sponsors extracurricular activities.

The Arnold Air Society, a national professional fraternity, is open to selected cadets and undergraduate men. Honor Guard, an auxiliary of Arnold Air Society, is a precision drill team and is open to all cadets.

Membership in the Angel Flight, an auxiliary of the Arnold Air Society, is open to selected undergraduate women.

Cadets may also compete for numerous trophies and awards available to members of the Cadet Corps.

The General Military Course for freshmen and sophomores consists of one hour per week of classroom instruction and one hour per week corps training activity throughout each of the two years.

Requirements for entry into the GMC follow: Each applicant must be enrolled as a full time student in the University, be a citizen of the United States or seeking citizenship status, be of sound moral character, have no obviously disqualifying physical limitations, and pass a pre-enrollment aptitude test.

The POC consists of six quarters of prescribed academic work in addition to the four-week summer training unit for four-year program students. It is the same for two-year program students, except that the six-week summer training unit for these individuals precedes entry into the POC, and they do not attend the four-week camp prescribed for four-year program cadets. The object of the POC is to qualify students for appointment as second lieutenants in the United States Air Force Reserve.

Selection of students for enrollment will be made from qualified applicants by the Professor of Aerospace Studies as provided in Public Law 88-647 (ROTC Vitalization Act of 1946) as follows:

1. Conditions of Service. All POC students will be members of the obligated Air Force Reserve and will be placed under contract with the government. The contract will contain the following provisions:

- a. The Student agrees



- (1) Unless sooner released for the convenience of the government, to complete the POC and to attend the summer training unit at the time specified by proper authority.
  - (2) To accept an appointment as second lieutenant, United States Air Force Reserve, if and when tendered.
  - b. The Department of the Air Force agrees to pay the student a retention fee at a monthly rate as announced by that department. The current rate is \$40 per month for a maximum period of 600 days. For Financial Assistance Program students the rate is \$50 per month.
2. Personal Qualifications
- a. A student must have completed the GM course or its equivalent in previous service, or the six week field training, if a two-year program student.
    - (1) Students who have had previous training or service may receive credit toward entrance into the POC within the following limits.
      - (a) On the basis of previous honorable service in the Air Force, Army, Navy, Marine Corps, or Coast Guard, a cadet may request a waiver of the GM course, or any portion thereof, as a requirement for entrance into the POC.
  - b. In age, the student must not have reached his twenty-fifth birthday at the time of initial enrollment in the POC.
  - c. The physical standards prescribed for appointment to the United States Air Force Reserve in AFM 160 will apply. Due allowance will be made for physical defects that can be corrected.
  - d. Mental and educational requirements:
    - (1) A satisfactory score for the Air Force Officer Qualification Test will be required.
    - (2) The fact of enrollment in Southern Illinois University and academic *good standing* will be accepted in satisfaction of education requirements.
    - (3) At the time of acceptance, the applicant must have at least two academic years remaining to complete all prerequisites for graduation from the University; or, if he is a graduate student, he must have a like period of time remaining to complete all work for an advanced degree. In addition, an applicant's academic standing must be in phase with his AF ROTC training.
3. In addition to the monetary emoluments listed above POC cadets receive:
- a. An officer-type uniform—cadets will be furnished a uniform on a commutation basis. The uniform remains in the cadet's possession during his two-year enrollment and becomes his property upon successful completion of the AF ROTC program.
  - b. The pay of the first enlisted grade (\$120 per month) while at advanced summer training unit and travel pay to and from that unit at the rate of 6c per mile.

The POC consists of three hours of instruction per week for a minimum total period of seventy-two weeks.

The program consists of generalized courses designed to develop those attributes of character, personality, and leadership which are essential to

an officer in the USAF, supplemented by practical training in leadership and exercise of command.

Advanced Air Force ROTC summer training units of four weeks' duration will be conducted annually at Air Force installations to be designated by the Department of the Air Force. The six week camps will be similarly conducted.

Students enrolled in the four-year course will be required to complete the summer training program prior to receiving their commission. They will normally attend camp immediately after completing the first year of the POC.

Students enrolled in the AF ROTC courses at Southern Illinois University receives the following credit: Three hours of credit for the GMC (1 hour per quarter) and 18 \* hours for the POC (3 hours per quarter).

All credit received for the AF ROTC courses is allowable toward a bachelor's degree.

Air Force ROTC textbooks will be furnished on a loan basis to all AF ROTC students.

Uniforms are furnished by the University for the use of the GMC AF ROTC students.

All cadets are required to wear the uniform on such days and occasions as directed by the Professor of Aerospace Studies.

#### *Air Force ROTC Awards*

Awards are presented to outstanding cadets at the close of the school year. Details concerning such awards are published at appropriate times on the cadet bulletin board. The following awards will be presented to recipients during the Honors Day Ceremony, at Southern Illinois University, held in May.

1. The Commander's Award. Awarded by the detachment to cadet commanders appointed during the school year in recognition of leadership ability as demonstrated in command positions in the cadet corps.

2. The Trustees' Award, Senior Student. Awarded to the outstanding cadet in the senior year, based on standing in the University and in AF ROTC, and aptitude for general service.

3. The Trustees' Award, Junior Student. Awarded on the same basis as for senior cadet, except to a junior.

4. The Trustees' Award, Sophomore Student. Awarded on the same basis as for senior cadet, except to a sophomore.

5. The Trustees' Award, Freshman Student. Awarded on the same basis as for senior cadet, except to a freshman.

6. Air Force Association Medal, Outstanding senior cadet. Awarded to the senior cadet making the highest military grades of the year.

7. The Reserve Officers' Association Award, junior student. Awarded to the outstanding junior cadet, based on the University and AF ROTC grades for the current year and aptitude for general service.

8. The Air Force Times Award. Awarded to the senior cadet bringing constructive attention to the cadet corps.

9. Chicago Tribune Award, Junior Student. Awarded at the end of the first and third quarters of each school year to the outstanding junior cadet,

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\* Except AS-350, which is 2 hours academic credit for a Weather and Navigation course required of cadets participating in the ROTC Flight Instruction Program and is not included in the above total.



based on the highest grade in the particular military course of the current quarter and aptitude for general service.

10. Chicago Tribune Award, Sophomore Student. Awarded on the same basis as junior cadet, except to a sophomore.

11. General Dynamics Award, Sophomore Student. Awarded to the outstanding sophomore student applying and selected for the POC in a category leading to pilot training.

12. American Legion Auxiliary Awards. National security awards, presented to AF ROTC cadets in recognition of continued outstanding service in the interest of the corps.

13. McDonnell Aviation Award. Awarded to the outstanding senior cadet who has been selected for pilot training.

14. Sons of American Revolution. Awarded to that GMC cadet with highest over-all academic standing and military aptitude.

### University Extension Services

RAYMOND H. DEY, *Dean*

The University Extension Services is an all-university agency with offices on both the Carbondale and Edwardsville campuses. Its major function is to impart knowledge to persons not in regular attendance at the University. This is done in two ways: (1) The Extension Class Program, and (2) The Educational Conference Program.

Extension classes, which offer college credit and are identical to similar classes offered on the campus, are scheduled in the various communities in the southern half of the state of Illinois, or are offered by radio or television for Southern Illinois residents, where there is a need for them. Classes are also scheduled in foreign countries when there are definite advantages to having them offered there.

The Educational Conference Program is conducted on both campuses of the University and occasionally off campus in nearby cities and towns. Assistance is not only given for local conferences but for state and national conferences. Persons attend these conferences from the state of Illinois, from all parts of the country, and in some instances from all over the world.

The University Extension Services, in its programs, uses professional faculty members, distinguished visiting authorities, library facilities, various teaching aids, and many other resources of the University in carrying out its function.

### *Policies and Procedures of the Extension Class Program*

#### CLASS MEETINGS

Three-hour Extension classes meet weekly for a period of 12 weeks, each meeting being  $2\frac{1}{2}$  hours in length unless otherwise stated. Four-hour Extension classes meet weekly for a period of 16 weeks, each meeting being  $2\frac{1}{2}$  hours in length, or weekly for 12 weeks with 4 extra meetings being arranged by the instructor and the group, with the exception that 4-hour graduate classes meet weekly for 12 weeks.

#### FIRST CLASS MEETING

The date of the first meeting of an Extension class is arbitrarily set by



the extension dean. The instructor and the group, at the first meeting of the class, decide upon which day of the week subsequent meetings are to be held if the instructor has other days available.

#### TUITION AND FEES

Tuition is \$6.00 per quarter hour of credit plus a \$1.05 textbook rental fee. The textbook rental fee must be paid by all students, including holders of Normal School and Military scholarships, except graduate students who must purchase, or make other arrangements for, their books. (The instructor has the privilege of requiring the purchase of additional books and materials.)

#### REGISTRATION

Registration for Extension classes will be conducted by the instructor during the first and second meetings of the class. Students are urged to register at the first meeting. Students registering after the second meeting of the class must have unusually good reasons for doing so which must be approved by the dean of University Extension Services. A late registration fee of \$5.00 will also be charged.

All Extension students must have their Social Security numbers with them in order to complete their registration at the first class meeting.

#### AUDITING

Persons not interested in receiving credit may audit courses, if facilities are available, by receiving permission from the instructor. Auditors pay the same fee as those who register for credit.

#### TEXTBOOKS

Undergraduate students will be able to obtain rented textbooks at the first meeting of the class. Graduate students may either purchase books at the first meeting of the class or complete a form for ordering them. In this case, the books ordered will be available at the second meeting of the class.

#### LIBRARY FACILITIES

Each instructor may, if he so desires, take a number of supplemental reading books, perhaps thirty or forty, to his Extension class. These books are readily available to the student as they are kept in the room where the class is conducted. Students are also issued a Library Permit which enables them to use any of the libraries on any of our campuses. There is no charge for these services.

#### EXTENSION CREDIT APPLICABLE TO THE BACHELOR'S AND MASTER'S DEGREES

Extension credit may be applied to meet graduation requirements or towards a master's degree. University policy provides, however, that not more than one-half of the total credit required for graduation, or 96 hours, may be obtained in off-campus courses. Sixteen hours of Extension credit may be applied toward a master's degree.

#### COURSE NUMBERING SYSTEM

Any 400 level course may be used for either undergraduate or graduate credit. The 500 level courses are open to graduate students only. Only

students who have graduate standing or more than 96 hours of undergraduate credit, which is at least junior standing, may register in a 400 level course. Other Extension courses are open to students who are high school graduates or over 21 years of age (students who have been forced to drop school because of low grades are not eligible for Extension work unless permission is obtained from the proper campus academic dean). Those starting to work toward the master's degree must come to the Office of the Graduate School before the end of their first course and have an adviser assigned who will help plan the rest of their graduate program.

#### SCHEDULING EXTENSION CLASSES

Extension courses will be scheduled under the following three conditions:

(1) Where it is apparent that there is a need present and adequate enrollments to justify scheduling the class; (2) When it is possible to obtain a faculty member to teach the class; and (3) When adequate laboratory and library facilities are available.

#### *Educational Conference Program*

##### PURPOSE OF THE PROGRAM

Educational conferences are scheduled when off-campus persons are in need of knowledge which may be obtained from our professional faculty members, from outstanding authorities who may be brought to the campus, or which may evolve as a result of panel and other discussion techniques participated in by those mentioned above as well as others.

##### ORIGIN OF CONFERENCE

The idea of a conference may originate from one or more persons who are members of one of our academic departments or divisions, from one or more persons with similar interests off-campus, from a member of the University Extension Services, or by a combination of these as well as other persons.

A call to the University Extension Services will set in motion the process which results in a specific conference.

##### CONFERENCE PLANNING

A conference planning group is usually desirable in order to determine if there is a real need for a conference, to better define this need, and to discuss the best personnel and conference techniques to meet this need.

##### ASSISTANCE PROVIDED BY THE UNIVERSITY EXTENSION SERVICES

In addition to helping determine and assemble a conference planning group, to advise this group of conference techniques which will probably be most successful for this particular conference, and to perform other details incidental to planning, many other activities are often carried on by the University Extension Services. Some of these are as follows:

1. Make arrangements for persons to appear on the conference program, including subject matter specialists as well as representatives from the University Administration.
2. Assemble the conference program and have it printed.
3. Determine a mailing list and send invitations.
4. Arrange for publicity about the conference through a number of media.



5. Reserve auditoriums and other meeting rooms.
6. Arrange for coffee hours, luncheons, and banquets.
7. Requisition microphones, movie and slide projectors, and other paraphernalia of this type.
8. Arrange for registering persons attending the conference.
9. Make any special parking arrangements needed.
10. Make arrangements for lodging for conferees.
11. Arrange tours of campus and other facilities.
12. Arrange social hours for spouses of those attending the conference.
13. Meet trains and airplanes where necessary.
14. Type and distribute copies of speeches presented at the conference.
15. Perform a number of other activities often necessary for a particular conference.

#### COSTS

A conference registration fee is often assessed to cover some of the conference costs. On some occasions other sources of funds are used to pay for bringing outstanding authorities to the conference and to cover other expenses.

### Division of Technical and Adult Education

ERNEST J. SIMON, *Dean*

The Division of Technical and Adult Education has a dual responsibility: to meet the fundamental functions of adult education in its performance in our society; and to serve high school graduates interested in obtaining a college-level course of instruction of a shorter duration than the usual four-year college program.

#### *Vocational-Technical Institute*

The Vocational-Technical Institute provides for high school graduates one and two-year college-level terminal courses of study for training technicians. These courses of study are designed to prepare men and women for employment at the semi-professional and technical level in industry, the allied health occupations, and business. (See Division of Technical and Adult Education bulletin.)

#### *Adult Education*

The Adult Education course of study consists of noncredit courses in various vocational, technical, and general education fields designed to provide a wide variety of educational opportunities for adults.

Most courses range in length from eight to twelve weeks, two or three hours weekly. Certain special courses are offered for sixteen to twenty-four weeks. These tailor-made courses are varied to meet the interests and needs of the adults served. (See Division of Technical and Adult Education bulletin.)

The adult education courses are taught by regular staff members obtained from every division and school of the University, as well as carefully selected specialists from the ranks of business, industry, and the professions.



### **Community Development Institute**

**RICHARD M. THOMAS**, *Director*

The Community Development Institute has been established for students seeking training in work with individuals and groups striving to develop a more satisfactory life within the community setting. The institute's purposes also include training of adults concerned with improving their community leadership, and cooperating with academic units of the University and other agencies in research undertakings to investigate community processes and social change. Research findings from these undertakings become invaluable to the communities in their development.

### **Labor Institute**

**JOHN M. McDERMOTT**, *Director*

The function of the Labor Institute is to promote harmony and cooperation between labor and management by encouraging the training of students and others interested in labor and industrial relations and to provide advice on the technical aspects of labor and industrial relations to labor, to industry, and to the public.

### **Latin American Institute**

**A. W. BORK**, *Director*

In order to provide a special course of study for the student interested in Latin America, the Latin American Institute offers an undergraduate concentration in inter-American studies leading to the Bachelor of Arts degree in the College of Liberal Arts and Sciences.

### **Small Business Institute**

**R. RALPH BEDWELL**, *Director*

The primary objective of the Small Business Institute is to serve the continuing educational needs of individuals from business, education, and government in the primary service area of Southern Illinois and beyond through the offering of noncredit management development programs, small business development programs, and programs for academicians.

Inquiries should be directed to the director, Small Business Institute, Southern Illinois University, Carbondale, Illinois 62901.

### **Transportation Institute**

**ALEXANDER R. MACMILLAN**, *Director*

The Transportation Institute has been established to meet the growing need for specially educated men and women in the transportation and logistics field. Short courses of a continuing educational nature are offered periodically throughout the school year for personnel in or associated with the transportation industry as well as for students and faculty. Courses in transportation and logistics are sponsored in cooperation with other activities of the university in both undergraduate and graduate degree programs.



# 5 / Areas of Concentration

## Fields of Study

Fields of study for students seeking one-year certificates or two-year associate degrees are included in the Division of Technical and Adult Education issue of the *Southern Illinois University Bulletin*. Preprofessional fields are described in Chapter 6 of this catalog.

Fields of study in which Southern Illinois University grants bachelor's degrees are called areas of concentration, and the bulk of this chapter is devoted to their description. They are listed below in the order of their appearance. Also included in this chapter are sections on African studies, nursing, secondary education, and student teaching.

Accounting	General Science <sup>2</sup>	Physics
Agricultural Education	Geography	Physiology
Agricultural Industries	Geology	Plant Industries
Agriculture, General	Government	Printing Management
Animal Industries	Health and Physical	Psychology
Anthropology	Education <sup>2</sup>	Radio-Television
Applied Science	Health Education	Recreation and
Art	Health Science	Outdoor Education
Asian Studies <sup>1</sup>	History	Religious Studies <sup>1</sup>
Biological Sciences	Home Economics	Russian and East
Botany	Industrial Technology	European Studies <sup>1</sup>
Business Teacher	Instructional	Secretarial Studies
Education	Materials <sup>1</sup>	Small Business
Chemistry	Inter-American	Management
Community	Studies	Social Studies <sup>3</sup>
Development <sup>1</sup>	Journalism	Sociology
Design	Language Arts <sup>3</sup>	Special Education
Economics	Management	Speech
Elementary Education	Marketing	Speech Pathology
Engineering	Mathematics	and Audiology
Engineering	Microbiology	Technical and
Technology	Music	Industrial
English	Philosophy	Education
Finance	Photography	Theater
Foreign Languages	Physical Education	Zoology
Forestry		

## Abbreviations Used in this Chapter

Three-digit numerals are used to identify specific courses. The first numeral of the three indicates the level of that course. A letter following

<sup>1</sup> Secondary concentration only.

<sup>2</sup> Not described in this catalog.

<sup>3</sup> Mentioned under secondary education, but not described in this catalog.



an identification number indicates a *part* of a course (*a* means first part, *b* means second part, etc.). A numeral separated from the identification number by a dash indicates the number of hours required in the course. For example, Forestry 365-10 indicates a third level course of 10 hours in the Department of Forestry, and Forestry 365a,b, would indicate the first two parts of the course.

The five areas of General Studies are referred to as GSA, GSB, GSC, GSD, and GSE. The three-digit numerals following these abbreviations function similarly to those noted above. Numerals 1, 2, or 3 following one of these abbreviations and separated by a dash indicate the level requirement in that area. For example, GSA-3 indicates the third level requirement in General Studies Area A.

Numerals in parentheses in columns of figures pertain to quarter hours which satisfy more than one requirement. They are in parentheses to avoid their being added into the total of the column, which would be a duplication of hours required. For example, under Agricultural Education, below, GSA 101 satisfies part of the General Studies requirements and contributes 8 hours toward the 84 hours required. It also satisfies one of the requirements for concentration in agricultural education but does not contribute to the printed total of 73 hours.

### Accounting

Accounting is the means by which the many transactions of business are analyzed, recorded, presented, and interpreted. The ability to analyze, present, and interpret is not acquired easily; it is one that takes thorough and serious study.

The accounting courses are designed to develop those abilities which lead to professional positions in cost accounting, auditing, income tax, financial statement analysis, and general financial accounting. The operation of a business and its financial condition are of interest to its owners, to its employees, to its creditors, to the various governmental bodies, and to the public.

Accounting courses cover four basic areas of study: theory, cost accounting, tax, and auditing. In addition to the four basic areas, special courses are offered in governmental accounting, accounting systems, and Certified Public Accountant problems. Although individuals trained in accounting might work in private industrial firms, public accounting firms, governmental agencies, or in college teaching, the four basic areas in accounting are needed as background. Those individuals desiring to engage in public accounting in Illinois should familiarize themselves with the Illinois laws and regulations covering the certification of public accountants. The regulations are published by the Committee on Accountancy, University of Illinois, Urbana, Illinois 61801.

#### *Bachelor of Science Degree, SCHOOL OF BUSINESS*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . .	84
<i>Professional Business Core</i> . . . . .	42
GSB 211a, GSD 110 . . . . .	(7)
Accounting 251-12 . . . . .	12
Economics 214, 215 . . . . .	6
Finance 320, 371 . . . . .	9
Management 340, 481 . . . . .	8

Marketing 225, 325 .....	7	
<i>Requirements for Concentration in Accounting</i> .....		39
GSB 102-8, 211b .....	(12)	
Accounting 331, 341, 351-8, 456 .....	20	
Accounting 432, 442, 453, (choose at least two) .....	8	
Accounting 355, 415, 458, 459, 461 (Choose one unless three were chosen above.) .....	3-4	
Economics 315 .....	4	
Finance 372 or 373 .....	4	
<i>Electives</i> .....		27
<i>Total</i> .....		192

### Secondary Concentration

Requirements for a 24-hour secondary concentration in accounting consist of 251-12, 8 hours of accounting courses numbered 300 or above, and Management 170 or 340.

### African Studies

Although a number of courses concerned with Africa are offered, they are insufficient in hours of credit to permit a secondary concentration. The African Studies Committee can give information about the courses available and can also supply advice and assist research on African subjects with its bibliographical and documentary materials. Address the chairman of the committee, Department of Geography, Southern Illinois University, Carbondale, Illinois 62901.

### Agricultural Education

In agricultural education, completion of a four-year course of study leads to certification as a teacher of vocational agriculture. Courses in both the School of Agriculture and the College of Education are included. A student may receive the Bachelor of Science degree and take at least part of the additional courses at the graduate level to qualify to teach Vocational Agriculture.

#### *Bachelor of Science Degree, SCHOOL OF AGRICULTURE*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ....	84
<i>Requirements for Concentration in Agricultural Education</i> .....	73
GSA 101 .....	(8)
GSB 211a .....	(4)
GSD 103, 108, 110 or Mathematics 111 .....	(12) + 1
Agricultural Industries: agricultural economics courses ....	12
Agricultural Industries: agricultural mechanization courses	12
Animal Industries .....	12
Plant Industries .....	12
Electives in technical agriculture .....	24
<i>Professional Education Requirements</i> .....	34
GSB 201c .....	(4)
Agricultural Industries 210, 309, 312-12 .....	19
Two of the following: Agricultural Industries 311, Educational administration and Supervision 355, Guidance 422,	



Instructional Materials 417, Secondary Education 407, 440 .....	7
Guidance 305 .....	4
Secondary Education 310 .....	4
<i>Elective</i> .....	1
<i>Total</i> .....	192

**Agricultural Industries**

In agricultural economics, courses are offered in the following fields: farm management, farm credit, agricultural prices, agricultural marketing, agricultural cooperatives, and farm policy. An agricultural business option is available.

Courses are offered in the four fields of farm mechanization; rural electrification, farm power and machinery, farm structures, and soil and water engineering. A special course of study is available to train farm machinery specialists for positions requiring managerial ability for dealer services and sales work.

*Bachelor of Science Degree, SCHOOL OF AGRICULTURE*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ....	84
<i>Requirements for Concentration in Agricultural Industries</i> .....	81

Three options are available: A. Agricultural Economics, B. Agricultural Business, C. Agricultural Mechanization

	A	B	C
GSA 101-8 .....	(8)	(8)	(8)
GSB 211a .....	(4)	(4)	(4)
GSB 314 .....	3	3	
GSB 103, 110, Mathematics 111a .....	(11)	(11)	(11)
Agricultural Industries 114, 350, 354, and others .....	24	24	0
Agricultural Industries 114, 306, 354, 373, and others .....	0	0	36
Animal Industries 105 or 231, 315 .....	8	8	8
Plant Industries 103, 309 .....	8	8	8
Electives in agriculture .....	17	5	8
	60	48	60
Social sciences and business .....	21		
Social sciences, business, and communications .....		33	
Business and related courses .....			21
<i>Electives</i> .....			27
<i>Total</i> .....			192

**Agriculture, General**

General agriculture, intended for students seeking broad backgrounds in agriculture, is probably the best agricultural plan for students who have not chosen a professional area for emphasis.

Students gain basic preparation for many of the agricultural careers: general farming, agricultural services, agricultural extension, agricultural



communications, agricultural business, agricultural industry, and agricultural production. Students who initially enroll in general agriculture may transfer to other agricultural areas of concentration or they may continue in general agriculture and select courses from various fields.

*Bachelor of Science Degree, SCHOOL OF AGRICULTURE*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in General Agriculture</i> . . . . .	62
GSA 101b, or Chemistry 111a or b . . . . . (4) + 1	
GSB 211a . . . . .	(4)
GSD 103, 110 or Math 111b, 111a . . . . .	(11)
Agricultural Industries 114 or 350 or 354, and others . .	12
Animal Industries 105 or 125 or 231, 315, and others . .	12
Forestry or Agricultural Industries (Mechanization) . .	3-5
Plant Industries 103, 264 or 309, and others . . . . .	12
Electives in agriculture . . . . .	20-22
<i>Electives</i> . . . . .	46
<i>Total</i> . . . . .	192

**Animal Industries**

Instruction, research, demonstration, and consultation are provided in the fields of livestock, dairy, and poultry production, veterinary science, and dairy technology. Courses are offered in all phases of animal production, animal nutrition, and livestock management.

The student has opportunity to select courses in other areas of agriculture or related fields such as business, biology, or physical sciences, thus being able to include the agronomic, agricultural economic, and agricultural engineering phases of agriculture or business as related to animal production.

*Bachelor of Science Degree, SCHOOL OF AGRICULTURE*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Animal Industries</i> . . . . .	69
(For an AGRICULTURAL SCIENCE option, required hours are in the second column.)	
Animal Industries 105, 125, 231 (any two) . . . . .	8 8
Animal Industries 315, 332, 381 . . . . .	9 9
Animal Industries electives . . . . .	31 19
Agricultural Industries 354 . . . . .	3 3
Plant Industries 103 . . . . .	4 4
Electives in School of Agriculture . . . . .	5 5
Chemistry 240 or 305a or 341a (organic) . . . . .	4 4
Science electives . . . . .	4 16
<i>Electives</i> . . . . .	39
<i>Total</i> . . . . .	192

**Anthropology**

All the major divisions of anthropology are covered, viz. archaeology, ethnology, social anthropology, linguistics, and physical anthropology. Fac-

ulty members of the department have had field experience in North, South, and Central America, the Caribbean, Europe, Africa, and the Pacific. Faculty specialization and field experience in northern Mexico are especially strong. Emphasis is also given to the anthropology of Southern Illinois with special attention to archaeological studies.

*Bachelor of Arts Degree*, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
<i>Requirements for Concentration in Anthropology</i>	73
GSD FL (two years in a language)	(9) + 9
Anthropology 300 or 402, 303, 304, 9 hours from 305 and/or 306, 400, 401 or 413, 404, 405, 408a,b, 409	46
Eighteen hours from at least three of the following: geography, geology, philosophy, psychology, sociology, and zoology	18
<i>Secondary Concentration</i>	24
<i>Electives</i>	11
<i>Total</i>	192

Students are expected to familiarize themselves with the contents of certain basic anthropological publications, whether these fall within the required courses are not. A list of these publications will be provided, and the student is expected to work out a reading course of study under the supervision of his adviser.

SECONDARY CONCENTRATION

A secondary concentration in anthropology consists of 300 or 402, 304, 400, 409, and 10 hours in courses above 300. The student is advised to consult the chairman before selecting his electives.

**Applied Science**

Science is concerned with discovering and describing the structure and processes of the natural world. Applied science may be thought of as science in the process of becoming technology; it is particularly concerned with the application of new science.

The applied scientist finds that the conventional theoretical formulations often do not completely explain the phenomena with which he must deal, that pure science has tended to pass on into new fields of study so quickly that many important fields are abandoned before they are adequately investigated. He must therefore be prepared to make himself responsible for original and fundamental investigations in the physical and mathematical principles that underlie his own work, while he still holds his place as the pre-eminent intellectual agent of progress in the practical world. The applied science course of study at Southern Illinois University is directed toward the application of science in fields such as materials science, information processing science, applied chemistry, applied mathematics, mechanics, physics, and bionics.

*Bachelor of Science Degree*, SCHOOL OF TECHNOLOGY

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.)	76
(Advanced Standing Assumed)	
<i>Requirements for Concentration in Applied Science</i>	125-126



GSB 361 .....	(3)
Applied Science 300, 450, 470 .....	14
Chemistry 111 .....	10
Engineering 222, 260-9, 300-6, 311-6, 331-8, 412, 435 ..	38
Mathematics 150-10, 252-9 .....	(9) + 10
Physics 211-15 .....	15
Technology 100, 101-6 .....	8
Optional Groupings .....	30-31
(A) <i>Applied Chemistry</i> : Chemistry 235, 309-9, Engineering 420-9, Applied Science electives-7; (B) <i>Applied Mathematics</i> : Applied Science 421, 422, Engineering 422 or Applied Science 418, Mathematics 407, 421, 422, 452-9, 475; (C) <i>Applied Mechanics</i> : Engineering 313-6, 406, 441-3, 445-12, 463-6; (D) <i>Applied Physics</i> : Applied Science 431-9, 432, Engineering 313-6, 401-9, Applied Science or Physics elective-3; (E) <i>Bionics</i> : Engineering 350, 351-6, 352, 435-6, Physiology 209, 300, 430; (F) <i>Information Processing Science</i> : Applied Science 418, 421, 422, Engineering 350-6, 422, 423, 435-9, electives-6; (G) <i>Materials Science</i> : Applied Science 401-12, Engineering 311, 321-9, electives-6.	
Total .....	201-202

Art

Undergraduate offerings in art provide introductory and specialized experiences. Courses are available for those desiring a concentration in art and for those interested in art as an avocation.

The course of study offered, leading toward the Bachelor of Arts degree in art, requires 111 hours in art with the emphasis on a professional degree.

The University asserts the right to withhold an example of the work of each student in each class. Such works become a part of a permanent collection from which exhibitions may be prepared.

To augment the regular academic course of study and enrich the experiences for the students of art, the University brings to the campus such distinguished New York artists as Herman Cherry, painter; Sidney Geist, sculptor; John Grillo, painter; Edward Millman, painter; Edward Dugmore, painter; Roy Lichenstein, painter; Walter Plate, painter; Ad Reinhardt, painter; and David Slivka, sculptor.

The distinguished weavers Ann Albers and Ronald Cruickshank have conducted lectures and workshops as has the well-known metalsmith, Richard Thomas.

A series of panels and lectures, often combining visiting speakers and members of the regular faculty, is presented each year. This series includes such eminent scholars as art historian, Dr. Richard Ettinghausen, Chief Curator of Near Eastern Art, Freer Gallerys (the Smithsonian Institute), Washington, D.C.; Dr. Harry Bober, professor of art history, New York University; Dr. Hugo Buchtal, Warburg Institute, London, England; Dr. Horst Janson, chairman of the Art History Department, New York University. Dr. Hoyt Sherman conducted demonstrations into



the phenomenon of vision, and the art critics Clement Greenberg and Hilton Kramer have also participated.

*Bachelor of Arts Degree, SCHOOL OF FINE ARTS*

One concentrating in art should select one of the following fields of specialization by the end of his sophomore year: painting, prints, sculpture, crafts, art history, and art education. He must complete a minimum of 24 hours in art history, unless he specializes in art education.

*Studio*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in Art</i> . . . . .	111
Art 100-15, 200-12 . . . . .	27
Art 225-9, electives in art history . . . . .	24
Art drawing 341-12, 441-6 . . . . .	15
Art electives . . . . .	13
Art specialization . . . . .	32
Painting—320-12, 325-15, 401-12, 406-12	
Prints—358-12, 325-15, 410-12, 416-12	
Sculpture—393-12, 325-15, 405-12, 493-12	
<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Total</i> . . . . .	195

*Studio Crafts*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in Art</i> . . . . .	111
Art 100-15, 200-12 . . . . .	27
Art 225-9, electives in art history . . . . .	24
Art electives . . . . .	28
Art specialization . . . . .	32
Metalsmithing—332-12, 325-15, 430-12, 436-12	
Pottery—302-12, 325-15, 420-12, 426-12	
Weaving—385-12, 325-15, 440-12, 446-12	
<i>Total</i> . . . . .	195

*Art Education*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in Art (Education)</i> . . . . .	94
GSC 340b, 340c . . . . .	6
Art (studio) 100-15, 200-12, 302, 332, 385 . . . . .	39
Art (history) 225-9 . . . . .	15
Art (education) 300a or 365, 306, 307, 308 . . . . .	13
Art electives . . . . .	21
<i>Professional Education Requirements</i> . . . . .	28
Guidance 305 . . . . .	4
Secondary Education 310, 352-12-16 . . . . .	16-20
Art 300, 365 . . . . . (4) + 4	
Education Electives (Art 308 fulfills a second elective. 3) . . . . . (3) + 4	
<i>Total</i> . . . . .	206

*Bachelor of Science Degree, COLLEGE OF EDUCATION*

Requirements for concentration in art education are the same as those for the Bachelor of Arts program with the exception of the art electives, which are reduced to 6 hours.

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

The course of study is intended to provide students with a good foundation in humanistic studies, art practice, and the history of art for the purpose of further professional training in history, archaeology, education, museology, and other related fields. A secondary concentration in art history includes 225-9 plus 15 hours of art history courses.

Students pursuing a concentration in art history should consult with the chairman of the department or the art history adviser.

*Art History*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in Art (Art History)</i> . . . . .	63
GSC 341, 342 . . . . .	6
GSD FL—Two years . . . . . (9) +	9
Art 100-15 and one other studio course, 3 hours plus . . . . .	18
Six advanced courses in art history . . . . .	18
Art 225-9, 482 or 483 . . . . .	12
<i>Secondary Concentration</i> . . . . .	24
<i>Electives</i> . . . . .	21
<i>Total</i> . . . . .	192

*Secondary Concentration*

One desiring a secondary concentration in art should see the chairman.

**Asian Studies**

*Secondary Concentration*

A secondary concentration in Asian studies is offered within the College of Liberal Arts and Sciences. To qualify, one must present a minimum of 30 hours to be chosen from at least three areas from a list of offerings approved by the Committee on Asian Studies. Not more than 12 hours may be taken in any one area. The approved courses cover areas of instruction in agriculture, anthropology, art, economics, foreign language, geography, government, history, and philosophy.

**Biological Sciences**

The course of study is designed to give the student a broad, yet intensive, education in the biological sciences preparatory for various professions, especially the teaching of biology at the secondary level. This work may be taken in either the College of Liberal Arts and Sciences or the College of Education. The science requirement for this concentration is the same in both colleges; consult Chapter 4 for differing college requirements.

The course of study consists of a combined concentration and secondary concentration of biological courses selected from General Studies

Area A and the Departments of Botany, Microbiology, Physiology, and Zoology. In addition, work in chemistry and mathematics is required.

All students interested in this course of study should consult with the biological sciences adviser in life sciences for a course guide and detailed individual course planning.

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . . .	84
<i>Requirements for Concentration in Biological Sciences</i> . . . . .	75
GSA 201-8 or 202-8, 312 . . . . .	(11)
GSA 301 and Botany 320 or Physiology 315-15 . . . . .	9 or 15
GSD 108-8 or Mathematics 111-10 . . . . .	(9-10)
Botany 300, 301, 313 . . . . .	9
Botany 315 or Zoology 401 . . . . .	4 or 5
Botany 341 or Zoology 310 . . . . .	3 or 5
Chemistry 111b,c . . . . .	10-15
Electives from Botany, Microbiology, Physiology, and Zoology . . . . .	3-12
Microbiology 301, 302 . . . . .	10
Zoology 102, 103, and 402 or 403 . . . . .	14
<i>Electives</i> . . . . .	33
<i>Total</i> . . . . .	192

*Bachelor of Science Degree, COLLEGE OF EDUCATION*

If the degree is to be in the College of Education, the student must satisfy all requirements of that college for the Bachelor of Science degree. The requirements for a concentration are the same in both colleges.

*Secondary Concentration*

A secondary concentration in biological sciences consists of a minimum of 36 hours and may be taken in either the College of Liberal Arts and Sciences or the College of Education. It must include GSA 201-8 or 202-8, 301, 312, Botany 300, 301, Microbiology 301, and Zoology 102, 103. Attention is called to the fact that Chemistry 111b,c is a prerequisite to some of these biology courses.

Biology electives (and general electives, as desirable) will normally be selected from the following:

GSA 301, 313, 314, 315, 321, 340

Botany 315, 320, 321, 341, 400, 404, 405, 411, 412, 414, 449, 451, 470

Microbiology 302, 403, 425, 441, 451

Physiology 315, 430, 433

Zoology 202, 300, 303, 306, 309, 310, 321, 401, 402, 403, 407, 408, 410, 413, 414

TEACHING CERTIFICATE

Requirements for standard high school teaching certificate (30 hours minimum):

Guidance 305 (prerequisite is GSB 201c)

Secondary Education 310 (prerequisite is Guidance 305), 352-12 to 16

Botany 470-4

Two from the following are required:



- Guidance 422a
- Secondary Education 440
- Education Administration 355
- Instructional Materials 417
- Secondary Education 407

Botany

Anyone considering a concentration in botany should consult with the chairman, Department of Botany.

*Bachelor of Arts Degree*, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
<i>Requirements for Concentration in Botany</i>	44-74
GSA 201-8 (4 hours count toward the 48 hours in botany)	(8)
GSD FL-9	(9)
Botany courses selected in consultation with the chairman	44
Chemistry and mathematics: a background of basic courses	0-30
<i>Electives</i>	34-64
<i>Total</i>	192

*Secondary Concentration*

A secondary concentration consists of a minimum of 24 hours in botany, including GSA 201-8 (which contributes only 4 hours) and excluding Botany 390 and 391.

Business Teacher Education

*Bachelor of Science Degree*, COLLEGE OF EDUCATION <sup>1</sup>

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
<i>Requirements for Concentration in Business Teacher Education</i>	57
GSB 201c; 211-8; GSD 110	(14)
Accounting 251a	4
Economics 214-3	3
Finance 371	4
Management 170 or 320	4
Marketing 225	3
Secretarial and Business Education 201a	3
Preparation to teach in a minimum of four of the following Areas:	36
General (Basic) Business Subjects—Economics 215, Management 340, Marketing 325	
Office Practice and Machines—Requirements for teaching in Area 1, 326, 341, Management 271	
Business Law—Finance 372, 373	

<sup>1</sup> A Bachelor of Science degree is also available within the School of Business for those students who wish to obtain business teaching positions. Students who choose a concentration in the School of Business (Accounting, Economics, Finance, Management, Marketing, Executive Secretarial) may become certified to teach in the public secondary schools by taking selected courses in the School of Business (depending on teaching areas chosen) and Professional Education Courses in the College of Education. Those students who are interested in preparing themselves for executive positions as well as for business teaching positions should consult a School of Business adviser.

Typewriting <sup>2</sup> —201b,c-6, 241, 304	
Shorthand and Transcription <sup>2</sup> —221-12, 324-8	
Bookkeeping or Record Keeping <sup>2</sup> —Accounting 251b,c	
Salesmanship and other Distributive Education Subjects—Marketing 325, 329, 337	
<i>Professional Education</i> .....	34-39
Guidance 305 .....	4
Secondary Education 310 .....	4
Secondary Education 352-12 or 16 .....	12 or 16
Two of the following: .....	8
Guidance 422a	
Educational Administration 355	
Instructional Materials 417	
Two of the following: .....	6 or 7
Secretarial and Business Education 403, 404 405, 406, 408, Secondary Education 315	
<i>Electives</i> .....	12-17
<i>Total</i> .....	192

### *Secondary Concentrations*

Secondary concentrations are offered in the following areas: (1) secretarial studies and office management, consisting of a minimum of 24 hours in business; (2) business-teacher education, consisting of a minimum of 30 hours in business.

Secondary concentrations are planned for each student individually by the student and his adviser. This procedure is necessary because students' backgrounds and needs vary greatly.

### **Chemistry**

The Department of Chemistry offers three degree programs with a concentration in chemistry. The first is the Bachelor of Arts degree with certification by the American Chemical Society. The degree is recommended for those who wish to become professional chemists. A minimum of 58 credit hours in chemistry is required for this degree. The second is the Bachelor of Arts degree. This degree involves less work in chemistry, with a minimum of 42 hours being required. This program is recommended to students who wish to complete a concentration in chemistry, but who plan on eventually going into other professional areas such as medicine, dentistry, etc.

The third program of study leads to the Bachelor of Science degree in education. This degree program is administered by the College of Education. It is provided for those who wish to become secondary school chemistry teachers.

Candidates for degrees are required to have a 3.00 grade point average in chemistry courses at the start of the second year of the concentration and a 3.25 grade point average in chemistry courses, and/or consent of the chairman, before starting the third and fourth years.

<sup>2</sup> Students who demonstrate by examination an initial competence in typewriting may be excused from as many as 9 hours of typewriting (201-9). Those students starting with a proficiency in shorthand may be excused from as many as 16 hours of shorthand (221-12, and 324a). Those who have had high school instruction in bookkeeping will start with Accounting 251a.

*Bachelor of Arts Degree, A.C.S., COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) ..	76
(Advanced Standing Assumed)	
<i>Requirements for Concentration in Chemistry</i> .....	99-102
GSD 126-9 .....	(9)
Chemistry 111b,c-10, 235, 341-15, 411, 432a, 433, 461-12 plus two of the following: 412, 432b, 451-11, 496, 444, 464, one of which must be picked from the first four on the list .....	58
Mathematics 111-10, 150-10, 252-9 .....	29
Physics (one year) .....	12-15
<i>Electives</i> (additional mathematics is recommended) .....	17
<i>Total</i> .....	192

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) ..	76
(Advanced Standing Assumed)	
<i>Requirements for Concentration in Chemistry</i> .....	64-86
GSD 126-9 (recommended) or 123-9 or 136-9 .....	(9)
Chemistry 111b,c-10, 235, 341-15 or 305-9, 461-12 or 460-5, 432a plus courses selected from 350, 375, 411, 412, 432, 433, 444, 446, 447, 451-11, 464, 471, 490, 496 to total 42 hours .....	42
Mathematics 111-10 (remainder determined by prerequisites of chemistry courses; Mathematics 150-10 and 252-9 are recommended for professional chemists) ....	10-29
Physics (one year) .....	12-15
<i>Electives</i> .....	30-52
<i>Total</i> .....	192

*Bachelor of Science in Education, COLLEGE OF EDUCATION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) ....	76
(Advanced Standing Assumed)	
<i>Requirements for Concentration in Chemistry</i> .....	48 <sup>1</sup>
Chemistry 111b,c, 235, 341-15 or 305-9, 461-12 or 460, plus courses selected from 350, 375, 411, 412, 432-8, 433, 444, 446, 447, 464, 471, 490, 496 .....	48
For other course requirements see Secondary Education.	

**Community Development**

*Secondary Concentration*

A secondary concentration in community development consists of 24 hours, including Sociology 335, 487a,b, plus 13 additional hours approved by the Community Development Institute. A student intending to concentrate in community development should consult the director.

<sup>1</sup> For certification, a concentration of 48 hours requires a secondary concentration of 27 hours. A concentration of 36 hours can be taken, but requires two 27-hour secondary concentrations.



## Design

The purpose of these courses is to prepare students for careers of socially useful problem-solving relative to significant needs of contemporary society. The student learns ways to utilize mental and physical resources to develop and control man's living environment. This, therefore, deals with areas of visual communications and environmental planning. Traditional school stratifications are minimized. Boundary lines are continually crossed as the student at the undergraduate level works with a variety of problem situations in cooperation with such disciplines as psychology, microbiology, sociology, education, and others.

### *Bachelor of Arts Degree, SCHOOL OF FINE ARTS*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Design</i> . . . . .	119
GSD 108 or Mathematics 111-10 . . . . .	(9)
Design 100-15, 215-12, 275-12 . . . . .	39
Design 200-6, 300-6, 400-6 . . . . .	18
Design 366-15, 375-15, 390, 465f-15, 465g-15 . . . . .	62
<i>Total</i> . . . . .	203

Students transferring from other schools, other areas of concentration, or from the General Studies program should arrange a personal interview with the chairman of the Department of Design to develop the appropriate curriculum for fulfilling degree requirements.

## Economics

The aim of the course of study in economics is to develop in the student such critical and analytical skills as underlie the ability to understand economic problems and institutions, both in their contemporary and historical setting.

Concentration in economics gives the student a basic understanding of the chief theoretical and institutional branches of the subject as well as the academic background necessary for many positions in industry and labor organizations, for work in the economic branches of government service, for college or university teaching, and for graduate study in economics and business.

### *Bachelor of Science Degree, SCHOOL OF BUSINESS*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . .	84
<i>Professional Business Core</i> . . . . .	42
GSB 211a, GSD 110 . . . . .	(7)
Accounting 251-12 . . . . .	12
Economics 214, 215 . . . . .	6
Finance 320, 371 . . . . .	9
Management 340, 481 . . . . .	8
Marketing 225, 325 . . . . .	7
<i>Requirements for Concentration in Economics</i> . . . . .	32-36
Economics 310, 315, 330, 440, 441 . . . . .	20
Any four remaining Economics courses (including GSB 311) except 301, 433, 490 . . . . .	12-16

Electives .....	30-34
Total .....	192

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

General Studies Requirements (See Chapter 3. Waive GSB-3.) ..	84
Requirements for Concentration in Economics .....	38-42
GSB 211a, GSD 110, GSD FL-9 .....	(16)
Economics 214, 215, 310, 315, 330, 440, 441 .....	26
Any four remaining Economics courses (including GSB 311) except 301, 433, 490 .....	12-16
Secondary Concentration .....	28
(To be taken in anthropology, foreign languages, geography, history, mathematics, philosophy, psychology or sociology or some other area approved by the chairman of the Department of Economics.)	
Electives .....	38-42
Total .....	192

*Secondary Concentration*

The following courses constitute a 28-hour secondary concentration in economics: GSB 211a, GSD 110, Economics 214, 215, 315, and any three of the following: 310, 330, 429, 440, 441.

**Elementary Education**

*Bachelor of Science Degree, COLLEGE OF EDUCATION*

Following are the requirements for the Bachelor of Science degree with concentration in elementary education and meeting the minimum requirements for a Standard Elementary School Certificate on either the early childhood level or the elementary level.

In addition to general university and College of Education requirements a student must (1) meet all requirements pertaining to prerequisites to student teaching and should study the section in this bulletin which lists such requirements; and (2) have at least 24 hours in each of these three fields: language arts, science, social science.

Everyone in elementary education or early childhood education should plan to have September Experience. This Experience consists of serving as a teacher aide in an elementary school in the student's own home town after the public schools open in the fall and before the University opens. Usually there is an opportunity for a full two weeks' experience in helping in the classroom. Students can sign up for September Experience during the spring quarter in the office of the Department of Elementary Education, which then makes the necessary arrangements.

ELEMENTARY

General Studies Requirements (See Chapter 3. Waive GSC-3.) ....	84
Requirements of Concentration in Elementary Education .....	94
GSB 211b or Government 300 .....	4
GSB 300b,c .....	6
Fine Arts electives .....	9
Language Arts electives .....	7



Mathematics 310 .....	4
Physical Education for Women 319 .....	4
Area of Specialization <sup>1</sup> .....	12
<i>Professional Education: (48 hours)</i>	
Educational Administration 355 .....	4
Guidance 305 .....	4
Elementary Education 314, 337, 351b-16 .....	24
Electives <sup>2</sup> .....	16
<i>Other Electives</i> .....	14
<b>Total</b> .....	<b>192</b>

## EARLY CHILDHOOD

<i>General Studies Requirements</i> (See Chapter 3.) .....	84
<i>Requirements for Concentration in Elementary Education</i> .....	99
GSB 211b or Government 300, GSB 300b,c .....	10
Art 300 .....	4
Language Arts electives .....	6
Mathematics 310 .....	4
Music 040 (or proficiency), 300b .....	6
Physical Education for Women 319 .....	4
Secretarial and Business Education 241 .....	1
Technical and Industrial Education 302 .....	4
Area of Specialization <sup>1</sup> .....	12
<i>Professional Education: (48 hours)</i>	
Educational Administration 355 .....	4
Guidance 305 .....	4
Elementary Education 309 (winter only), 316, 337, 350b-16 ..	27
Electives <sup>2</sup> .....	13
<i>Electives</i> .....	9
<b>Total</b> .....	<b>192</b>

## Engineering

The engineering course of study is designed to produce graduates who understand the basic sciences and know how to apply them to a broad field of engineering or scientific activity. This area of concentration includes research, development, creative design, and analytical engineering. The graduate may avail himself of the facts of basic science and engineering in the solution of problems, or he may pursue graduate study in many areas of science and technology.

Engineering entrance requirements are (1) character, attitude, and interest suitable to the responsibilities of the engineering profession, (2) intellectual ability and achievement indicated by satisfactory scholastic work prior to entering engineering school, and (3) completion of at least two years in an approved college or university with minimum of 9 hours

<sup>1</sup> Each student must obtain at least 12 hours in addition to all other requirements in one of the following areas: art, foreign languages, health and physical education, instructional materials, language arts, mathematics, music, psychology, recreation and outdoor education, science, social studies.

<sup>2</sup> Suggested electives include Elementary Education 100 (recommended freshman year), 203, 413, 415, 442; Guidance 422a, 412, 442; Instructional Materials 417; Speech 441, Speech Pathology and Audiology 428; and Special Education courses.



in English and speech, 18 hours in mathematics (analytical geometry, calculus), 15 hours in physics (mechanics, heat, light, sound, electricity, and magnetism), and 10 hours in chemistry (general, inorganic).

Students pursuing the course of study in engineering should have a well-rounded general education in addition to the specific requirements indicated above; thus the committee on admissions suggests that applicants obtain as much exposure to courses in other fields of knowledge as possible. Students who have studied primarily in nonscientific fields are acceptable if they have acquainted themselves well with the contents of pre-engineering courses.

The rest of the college work should be chosen with the object of developing the intellectual talents of the individual, rather than as required preprofessional preparation. The college work should include courses in language and literature, history, and the social studies, or other subjects which may afford the foundation for cultural development. Unless that foundation is laid early, there is the danger that later demands of technical and professional training may lead to its neglect.

*Pre-Engineering*

The pre-engineering course of study below is designed to provide a basic foundation for the professional engineering courses of study with specific emphasis upon the basic sciences, humanities, and social studies.

<i>Requirements for Pre-Engineering</i> .....	(52) + 52
General Studies .....	(43)
Chemistry 111 .....	10
Engineering 260 .....	9
Mathematics 150-10, 252-9 .....	(9) + 10
Physics 211 .....	15
Technology 100, 101-6 .....	8

Entrance requirements and prerequisites to the requirements for the concentration in engineering may total as many as 35 hours in addition to the General Studies requirements. The student should make every effort to satisfy these requirements through advanced standing, proficiency examinations, and waivers. The prerequisites to certain advanced courses may be waived for students who plan to enter engineering.

*Bachelor of Science Degree, SCHOOL OF TECHNOLOGY*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) ....	76
(Advanced Standing Assumed)	
<i>Requirements for Concentration in Engineering</i> .....	124
Requirements for Pre-engineering as listed above ....	(52) + 52
GSB 361 .....	(3)
Applied Science 300, 470-6 .....	11
Engineering 222, 300-6, 311-9, 313-6, 331-8, 412-3, 435-3, 443-9, 450 .....	51
Electives (engineering design) .....	10
<i>Total</i> .....	200

Students pursuing a Bachelor of Science degree with a concentration in engineering will have an opportunity to specialize at the graduate level in such engineering specializations as systems design and theory, information processing and theory, energy conversion, materials, or environment. Students with a concentration in engineering are encouraged

to pursue an integrated program of at least five years duration and completion of 245 hours of undergraduate and graduate credit culminating in a master's degree.

Engineering Technology

Engineering Technology is a technical area of study designed to prepare students who can apply engineering and technical principles and procedures to a variety of engineering activities. A concentration of courses in engineering technology may fulfill the educational requirements for professional work in many fields of technology. Students may concentrate their work in a number of areas such as architectural, chemical, civil, electrical, industrial, and mechanical.

Bachelor of Science Degree, SCHOOL OF TECHNOLOGY

General Studies Requirements (See Chapter 3. Waive GSB-3.)	84
Requirements for Concentration in Engineering Technology	113
GSA 358	(6)
GSB 361	3
Applied Science 307	5
Engineering 222, 300	6
Engineering Technology 260-9, 304-9, 311-6, 318-6	30
Mathematics 111, 150	(9) + 11
Psychology 320	4
Technology 100, 101-9, 300c	14
Optional Groupings	40
Aeronautical: Engineering Technology 322-6, 338-12, 342-9, electives-13	
Architectural: Engineering 305-12, 344a, Engineering Technology 301, 310, 314, 363, Industrial Technology 304-9, electives-3	
Chemical: Chemistry 230, Engineering 300b, Engineering Technology 337c, 342-6, 349-9, Engineering Technology or Chemistry electives-15	
Civil: Engineering Technology 310-6, 344a, 363-8, 364-6, 426-3, Engineering 344, electives-11	
Electrical: Engineering Technology 303-9, 332-6, 336-6, 338, 437-9, Engineering Technology electrical electives-6	
Hydraulics: Engineering Technology 314-6, 318c, 363-8, 364, 426, technical electives-17	
Industrial: Engineering Technology 325-9, 351-9, Industrial Technology 300-4, 314-9, 318c, 341b,c-6	
Mechanical: Engineering Technology 301-6, 308-9, 320-6, 322, 332, 337, 340, Engineering 300b, technical elective-3	
Mineral: Engineering Technology 318c, 332-9, 425, 430, 465-8, Engineering 459, technical electives-8.	
Total	197

English

The student who wishes to declare English as a concentration should consult the department's director of undergraduate studies as soon as he



knows he will concentrate in English. Transfer students from General Studies and other units of Southern Illinois University should bring a Request for Transfer form. Transfers from colleges other than Southern Illinois University should bring their evaluated transcript of grades. Thereafter, all students must have their advance registration forms signed by a departmental adviser. Deviations from approved programs must have prior approval. Membership in the English Club is expected.

Foreign language requirement for all concentrations in English: two years on the college level (or equivalent).

*Bachelor of Science Degree, COLLEGE OF EDUCATION OR  
Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES  
Option 1 (primarily for teacher-training candidates)*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in English</i> . . . . .	43
GSC 201, 202, 210 (prerequisites for a concentration) . (7) + 2	
GSD FL . . . . .	(9)
English 300-6, 302-12, 309a,b or 309a,c, 390, 485 . . . . .	29
Three 400-level genre-period courses . . . . .	12
<i>Foreign Language</i> (200 or 300 level) . . . . .	9
<i>Education Requirements</i> (for certification) . . . . .	31
Guidance 305 (GSB 201c is prerequisite), Secondary Education 310, 352, two electives	
<i>Electives</i> . . . . .	25
<i>Total</i> . . . . .	192

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES  
Option 2 (primarily for nonteacher-training candidates)*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in English</i> . . . . .	48
GSC 201, 202, 210 (prerequisites for a concentration) . (7) + 2	
GSD FL . . . . .	(9)
English 302-12, 309a,b or 309a,c, 390, 495a or 495b . . . . .	27
Three 400-level genre-period courses . . . . .	12
English 400-level electives to complete 46 hours . . . . .	7
<i>Foreign Language</i> (200 or 300 level) . . . . .	9
<i>Electives</i> . . . . .	51
<i>Total</i> . . . . .	192

*Option 3 (primarily for prospective graduate students)*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in English</i> . . . . .	52
GSC 201, 202, and 210 (two are prerequisites for a concentration) . . . . .	(7) + 2
GSD FL . . . . .	(9)
One course in each of the following areas: medieval, Shake- speare, Renaissance or 17th century, 18th century, 19th cen- tury, 20th century, early American, and American since 1965	32
English 495a or b . . . . .	4
English language course . . . . .	4
English 400-level electives to complete 50 hours . . . . .	10



<i>Foreign Language</i> (200 or 300 level) .....	9
<i>Electives</i> .....	47
<i>Total</i> .....	192

*Option 4*

Students may petition to undertake a program which does not match printed requirements. Interested students should discuss this possibility with the departmental director of undergraduate studies.

*Option 5*

Any of the options outlined above may be modified by entry into the departmental honors program. Eligible students will be invited to enter. Requirements for honors students remain as above except that three pro-seminars substitute for three senior genre-period courses.

*Recommended Electives Especially for Option 1.*

Journalism 103; 201; 421; 422 or 449 .....	12-13
Theater 402a; 409; GSC 203 .....	11
Speech 202 or 205; 323, 423 or 424; 406 (GSD 103 and GSC 200 are prerequisites) .....	15

*Secondary Concentration*

A secondary concentration is 27 hours, prescribed as follows: from GSC 200-level English courses, 6 hours; English 300a,b; 302b, and 302a or c; 309a; 390. Deviations must have departmental approval.

**Finance**

The financial implications of decisions in both business and government are daily becoming more complex. Within the firm, financial considerations permeate the central decisions of research, engineering, production and marketing. Within governmental activities, sophisticated financial techniques are becoming increasingly important. The financial executive thus takes a key role in the successful management of both business and governmental operations.

The finance curriculum offers three areas of specialization to meet the varied interests of students: (1) financial management, (2) financial institutions, and (3) general finance. The financial management program provides the background for a career in the financial operations of business firms and public institutions. The financial institutions specialization is designed for those interested in the operations of financial intermediaries and financial markets. General finance is a broad program which surveys the entire finance area.

*Bachelor of Science Degree, SCHOOL OF BUSINESS*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ....	84
<i>Professional Business Core</i> .....	42
GSB 211a and GSD 110 .....	(7)
Accounting 251-12 .....	12
Economics 214, 215 .....	6
Finance 320, 371 .....	9

Management 340, 481 .....	8	
Marketing 225, 325 .....	7	
Requirements for Concentration in Finance .....		36
GSB 102-8, 211, 211a .....	(12)	
Accounting 415 .....	4	
Finance 323, 325, 327, 421 .....	16	
One of the following specializations .....	16	
Financial Management .....	(16)	
Finance 324, 422, 475 .....	12	
Management 479 .....	4	
Financial Institutions .....	(16)	
Finance 324, 326, 328 .....	12	
Management 479 .....	4	
General Finance .....	(16)	
Student must choose 16 hours in Finance		
Electives .....		30
Total .....		192

Foreign Languages

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (See Chapter 3. Waive GSC-3.) ....	84	
Requirements for Concentration in Foreign Languages .....	42	
A minimum of 42 hours in one language in courses numbered above 200		
Secondary Concentration .....	24	
Electives .....	42	
Total .....		192

Bachelor of Science Degree, COLLEGE OF EDUCATION

Requirements for Concentration in Foreign Languages .....	36	
A minimum of 36 hours in one language in courses numbered above 200.		

Secondary Concentration

A secondary concentration consists of 24 hours in one language, in courses numbered above 200.

Forestry

Forestry provides instruction, research, and public service in the disciplines of forest recreation and park management, forest production, and wood utilization. The department's four-year undergraduate course of study leads to a Bachelor of Science degree offering fundamental training to students planning forestry as a professional career.

During the forestry student's freshman and sophomore years at Southern Illinois University his studies are devoted primarily to basic sciences, such as mathematics, chemistry, botany, physics, and zoology; and other cultural-foundational courses, such as English, history, and economics. Most of the professional forestry courses are offered in the junior

and senior years. One spring quarter of practical field courses is required. During this period students live in the field and pay living expenses involved. By completing his field experience in the spring, the student is free during all school-year summer quarters to be employed by Federal or other forestry agencies or to accelerate in his academic work.

Available to the Department of Forestry for teaching and research are the following: The Crab Orchard Wildlife Refuge; the Shawnee National Forest; the Union County Tree Nursery and Forest; and the Kaskaskia Experimental Forest comprising several hundred thousand acres of forest land, all in the vicinity of the University. Also available for wood utilization teaching and research is a modern wood products plant located at the Vocational-Technical Institute, east of Carbondale. The Southern Illinois University Experimental Forest and Giant City State Park provide additional facilities for teaching and research, especially during the Spring Camp.

In addition, thirty-four staff members of the U.S. Forest Service's Carbondale Forest Research Center are affiliated with the Department of Forestry and help to enrich the University's forestry program.

*Bachelor of Science Degree, SCHOOL OF AGRICULTURE*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . . . .	84
<i>Requirements for Concentration in Forestry</i> (For Forest Resource Management Option see A; for Forest Recreation and Park Management Option see B) . . . . .	105-106
	<div>A</div> <div>B</div>
GSA 101-8 or Chemistry 111a or b . . . . .	(8) + 1 (8) + 1
GSA 330, 340 . . . . .	(6) (6)
GSB 102 . . . . .	(8) (8)
GSB 211a . . . . .	(8) (8)
GSD 103, 110 . . . . .	(3) + 3 (3) + 3
Botany 320, 457 . . . . .	9 0
Forestry 104, 221, 306, 320, 330, 333, 340, 350b, 363-9, 365-7, 369, 375, 465, 466, 470-8, 471 . . . . .	66 0
Forestry 104, 221, 306, 330, 340, 350-6, 363-9, 365a,b, 369, 375, 410, 450, 451-7, 465, 470-8, 471 . . . . .	0 72
Geology 220 . . . . .	5 5
Mathematics 111-10, 150-5 . . . . .	(9) + 1 (9) + 6
Plant Industries 301 . . . . .	4 4
Technology 101a, Engineering Technology 363a . . . . .	7 7
Recreation and Outdoor Education 450 . . . . .	0 4
Zoology 306, 463 . . . . .	8 4
<i>Electives</i> . . . . .	19-20
<i>Total</i> . . . . .	209

**Geography**

In the field of geography, the student may work toward either a Bachelor of Science degree or a Bachelor of Arts degree depending upon his objective:



1. Bachelor of Science—for preparation to teach geography in the elementary or secondary school, or (with further preparation) in the junior college; or as a part of preparation to teach either social science or physical science in the elementary or secondary schools.

2. Bachelor of Arts—for a thorough knowledge of geography, in preparation for civil service appointment as a geographer, or for demands of private organizations requiring the services of geographers, meteorologists, cartographers, or planners.

Today a large number of geography students take professional training beyond the bachelor's degree. Schools, colleges, and universities and government and business establishments, as well, are calling for persons with graduate training in geography.

Geography 300, 302, 304, 306, and 400 make up a three-stage core for training in geography. Geography 300 gives a general survey of the viewpoint of geography. The second stage consists of 302, 304, and 306. Each of these courses gives the "elements" of understanding of a particular aspect of geography that all geographers must know. The third stage is 400. In it the various elements of physical, economic, and cultural geography are tied together, and the methods used by geographers in working with the complex of man-land associations in a particular area are shown. Geography 310 introduces the student to basic techniques used by geographers: maps and quantitative methods. Geography 490 offers the student an opportunity to work intimately with one of the staff members.

One concentrating in geography should complete the core courses before taking other geography courses. After completing the core, the student may choose any other geography courses in assembling the hours required for a concentration. However, his course of study should be approved by the departmental adviser.

In physical, economic, and cultural geography there are two advanced sequences each. This is to enable the student wishing to specialize in one of these systematic fields to gain some degree of concentration. Thus, a student interested in one of these specific fields—say, physical geography—may take both sequences in advanced physical geography. A student not interested in such specialization will make his choices from the full range of systematic and regional sequences.

A broad background in other fields is of great importance to a geographer. Thus, it is recommended that geography students hold their hours of geography to the minimum number required and use their elective hours to take work in other areas. Students interested in physical geography should consider work in geology, botany, zoology, plant industries, forestry, and physics. Students interested in economic geography can profit from work in economics, agricultural industries, marketing, and transportation. Students interested in regional development and urban studies have the opportunity to concentrate in economic geography and in cognate fields such as government, community development, and sociology. Students specializing in cultural geography will find courses in sociology, anthropology, community development, history, and government particularly useful. Students interested in the geography of a particular area of the world are encouraged to take courses on the area in other disciplines. Courses of study of the Latin American Institute and the committees on Asian, Russian, and central European studies are particularly noted.

Quantitative methods have become an essential tool used by geogra-

phers. Thus, those with a concentration in geography are strongly urged to take work in statistics. Mathematics 220 or Economics 307 provide an introduction, while students interested in more complete preparation may take Mathematics 410a,b, and c.

Students working for a secondary concentration in geography or taking the Social Studies Field concentration in education must take Geography 300 and two of the following courses: 302, 304, and 306. Consultation with the departmental adviser is encouraged.

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
<i>Requirements for Concentration in Geography</i>	42
GSD FL	(12)
Geography 300, 302, 304, 306, 310a, 400, 490-4	27
Geography electives to complete 42 hours	15
<i>Electives</i>	66
<i>Total</i>	192

*Bachelor of Science Degree, COLLEGE OF EDUCATION*

<i>Requirements for Concentration in Geography</i>	48
GSD FL <sup>1</sup>	(9)
Geography 300, 302, 304, 306, 400, 310a, 490-4	27
Geography electives to complete 48 hours (Only 42 hours are required if two 24-hour concentrations are presented; only 36 hours are required if one other 48-hour concentration is presented.) <sup>2</sup>	21

*Secondary Concentration*

Secondary Concentrations should include the core courses, for together these courses offer the strongest basic preparation in geography.

**Geology**

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.)	84
<i>Requirements for Concentration in Geology</i>	63-64
GSD FL	(9)
Chemistry 111-15	(8) + 7
Geology 220, 221, 302, 310, 425a, 431-8, 450a	40
Geology 311, 312, 315, 425b, 425c (any 3)	12
Mathematics 150a	(5)
Physics 206a, 207a, or 211a	4-5
<i>Secondary Concentration</i>	24
<i>Electives</i>	20-21
<i>Total</i>	192

A summer field course in geology is required and should be taken between the junior and senior years. Additional work in chemistry, mathematics, physics, biology, or zoology may be necessary for specialities.

<sup>1</sup> Substitution with written consent of department.  
<sup>2</sup> A background in statistical analysis is recommended.



Preparations for a professional career usually require graduate study.

Secondary Concentration

A secondary concentration consists of 24 hours, determined by consultation with the geology adviser.

Government

A concentration in government is recommended for persons planning to teach civics or government courses, and for those planning to qualify for the study of law or for the public service.

Government students should take as much work as possible in other social sciences, with at least one secondary concentration in a related field. Students planning to take work in government beyond the master's degree should acquire a reading knowledge of both French and German.

It is recommended that government students meet the second-level requirement in GSB by taking 201-8. Such students should then begin their work in government with Government 231 and 232, which are basic courses and prerequisites for many advanced courses. They may, however, take GSB 211-8; in this case they are not permitted to take Government 231 but may take 232.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (See Chapter 3. Waive GSB-3.) . . . .	84
Requirements for Concentration in Government . . . . .	42
GSD FL-9 . . . . .	(9)
Government 231 (or GSB 211b), 232 highly recommended . .	10
Government electives to total at least 42 hours, preferably according to one of three recommended sequences: 305, 306 . .	32
379, 380, 462, 471, 472, 495-8, GSB 303, 390, 392 . . . . .	(44)
Specialization in International Affairs: 371, 450-12, 453, 456, 457-8, 458-12, 471, 472, 475-8, 480, GSB 303, 345, 385, 390, 392 . . . . .	(55)
Specialization in Public Administration: 305, 315, 340, 360, 410, 420, 432, 434, 435, 436, 438, 440, 461, 462, 463, 464, 466, 467, 469, 470, 495-8 . . . . .	(77)
Electives . . . . .	66
Total . . . . .	192

Bachelor of Science Degree, COLLEGE OF EDUCATION

A concentration in government includes 48 hours. The following courses are recommended: Government 231, 232, 243, 305, 315, 330, 360, 371, 379, 380, 420, 466, 467, 472, 495-8, GSB 211b, 385, 390.

Health Education

Bachelor of Science Degree, COLLEGE OF EDUCATION

General Studies Requirements (See Chapter 3. Waive GSA-3.) . .	84
Requirements for Concentration in Health Education (48 hour Concentration, with One Secondary Concentration) . . . . .	57
Health Education: 300, 301, 305, 312, 325, 334s, 400, 405, 471, 491 and 11 hours of electives . . . . .	48



Microbiology 301 and GSA 301 .....	9
In addition, the student is urged to secure a total of 35 hours of natural science or, if preferred, to secure a secondary concentration in biology consisting of GSA 201-8, 301; Botany 300, 301, 313, 449; Zoology 102, 103, and Microbiology 301.	
<i>Secondary Concentration and Electives</i> .....	51
<i>Total</i> .....	192

A course of study leading to certification is available to the health education student in elementary or secondary teaching specialities.

### *Secondary Concentrations*

Required for health education: 205, 300, 311 or 312, 313s or 334s, 350 or 460, and 471. Additional courses may be taken in safety education, school health, community health, and home nursing.

Requirements for safety education: 302s, 313s, 323s, 334s, 443s, 475s, and Instructional Materials 417 or 445. Additional courses may be elected from the following: 415s, 480s, 481s, Guidance 305, Psychology 302, 305, 320, and Technical and Industrial Education 465-8.

### **Health Science**

#### *Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) ....	84
<i>Requirements for Concentration in Health Science</i> .....	72
GSA 102-8, 201-8 .....	(16)
GSB 102-8, 201-8 .....	(16)
GSD 108-6, 110, FL-9 .....	( 9) + 9
GSE 201 .....	( 3)
Chemistry 111b,c .....	10
Government 231, 360 .....	10
Health Education 300, 325, 355, 356, or 490 .....	15
Microbiology 301, 403 .....	10
Psychology 320, 323 .....	8
Zoology 102, 407 .....	10
<i>Electives</i> .....	36
<i>Total</i> .....	192

Recommended electives for specialization in sanitation: Botany 404, Health Education 488, Mathematics 111-10 (Alternatives to above GSD requirements), Physics 206-9, Zoology 306, 310, 316, and 406.

Recommended electives for specialization in public health laboratory: Botany 405, Chemistry 230, Microbiology 425, 441, and 451, Physiology 315, Zoology 306, 321, and 406.

### **History**

Students who intend to concentrate in history should consult with a member of the history faculty at the time of registration.

Forty-eight hours are required in history with approximately the same number of 400-level as of 300-level hours. Care should also be taken to distribute the work in the various fields of history. One year of acceptable work in a foreign language is required.

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3.)	90
<i>Requirements for Concentration in History</i>	34
GSB 101-8, 300-9 (15 hours count toward the total of 48 hours in history), GSD FL	(23) + 3
History 452	3
History electives to complete 48 hours	28
<i>Electives</i>	68
<i>Total</i>	192

*Secondary Concentration*

Thirty hours are required for a secondary concentration in history, and must include GSB 101b,c, 300. Students in the College of Education should take 12 hours each in the foreign and American fields, plus 6 elective hours of history irrespective of field. The exception to the 30 hour secondary concentration is the field course in Social Science, the members of which need not take more than 24 hours of history. It is desirable that a reasonable proportion of the secondary concentration course work should be taken in 400-level courses.

**Home Economics**

The School of Home Economics grants the Bachelor of Science degree in home economics. No secondary concentration is required. The following specializations are offered by the school and the departments indicated:

<i>Specialization</i>	<i>Department</i>
Apparel Design	Clothing and Textiles
Clothing and Textiles	Clothing and Textiles
Merchandising	
Dietetics	Food and Nutrition
Food and Nutrition Science	Food and Nutrition
Foods in Business	Food and Nutrition
General Home Economics	Home and Family
Extension	Home Economics Education
Institution Management	Food and Nutrition
Interior Design	Clothing and Textiles
Teaching Vocational Homemaking	Home Economics Education

The College of Liberal Arts and Sciences grants the Bachelor of Arts degree in home economics. A minimum of 42 hours in home economics is required. This is for the profession of homemaking rather than for any of the salary-earning professional careers in home economics. The specialization is offered by the Department of Home and Family.

*The Home Economics Honors Program*

An Honors Program in the School of Home Economics provides individualized programs for the student with high academic ability.

Selection depends upon (1) recommendations of the faculty members, (2) cumulative grade point average (4.00 is minimum, below 4.25 requires recommendation by the faculty and the Honors Council), (3) a personal



interview for measuring other desirable characteristics, and (4) percentile ranks on the University's entrance examinations.

In selecting freshmen for participation in informal group discussions prior to formal honors study, percentile ranks on the University's entrance examinations, high school records, recommendations from the high school faculty, and the personal interview will be utilized.

For admission into the formal program, the student may apply independently to the Honors Council or may be encouraged by any member of the faculty to apply on the basis of his records and staff recommendations.

*Bachelor of Science Degree, SCHOOL OF HOME ECONOMICS  
Apparel Design*

These courses offer preparation for designing of apparel or allied positions in the wholesale and retail fashion fields through training in textiles, creative design, draping, pattern making, and clothing construction.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
<i>Requirements for Concentration in Home Economics</i> .....	98-100
GSA 101a or 110-8; 330 or 331; GSB 102a,b, 201b,c;	
GSC 100 or 101, 102, 103; 348 or 354 .....	(35)
Art 225a or GSC 204 .....	3
Art 100-15, 341 .....	19
Chemistry 110, 240 .....	(4) + 4
Clothing and Textiles 127-4 *, 131, 135, 231, 233, 300,	
322, 327, 329, 334, 339, 360, 364, 371, 433, 434 .....	54-56
Food and Nutrition 100 .....	3
Home and Family 227, 237, 323, 331, 341 .....	13
Home Economics Education 306 .....	2
* Students may request exemption from 127b.	
<i>Electives</i> .....	8-10
Recommended electives: GSB 211a; Accounting 250; Cloth-	
ing and Textiles 127b; Design 100; Journalism 101, 260, 393;	
Marketing 225, 325; Physical Education 113, 303; Physi-	
ology 300; Psychology 307; Theater 111, 414, 415; VTID	
175a; Language; Mathematics.	
<i>Total</i> .....	192

*Dietetics*

These courses give a strong scientific education to those interested in becoming dietitians in hospitals, college dormitories, industrial plants, health clinics, laboratories, or public health and welfare organizations. They meet the requirements of the American Dietetics Association.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ....	84
<i>Requirements for Concentration in Home Economics</i> .....	82
GSA 101a, 301, 302; GSB 102-8; 201b,c; GSC 100 or 101,	
102, 103; GSD 108-9 .....	(44) + 1
Accounting 250 .....	4
Chemistry 110, 240, 350 .....	(4) + 8
Clothing and Textiles 127a .....	2
Food and Nutrition 100, 256, 320, 335, 356, 360a, 361, 362,	
363, 390, 420 .....	38
Guidance 305 .....	4



Home and Family 227, 237, 331, 341 .....	13
Home Economics Education 307 .....	3
Management 385 .....	4
Microbiology 301 .....	5
<i>Electives</i> .....	26
Recommended electives: Clothing and Textiles 131; Food and Nutrition 321, 360b, 421, 490; Home and Family 332; Microbiology 422; Management 382.	
<i>Total</i> .....	192

### *Foods in Business*

These courses are for students who desire to enter the business field as home service representatives for utility companies, as demonstrators for manufacturers, or for other educational, experimental, and promotional work with household equipment and foods.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ....	84
<i>Requirements for Concentration in Home Economics</i> .....	86
GSA 101a, 301, 302; GSB 101a,b, 201b,c; GSC 100 or 101, 102, 103, GSD 108-9 .....	(44) + 1
Accounting 250 .....	4
Chemistry 110, 240, 350 .....	(4) + 8
Clothing and Textiles 131 .....	3
English 390 .....	3
Food and Nutrition 100, 256, 320, 321, 335, 356 .....	22
Home and Family 227, 237, 324, 331, 332, 341 .....	20
Home Economics Education 306 .....	2
Journalism 393 .....	3
Marketing 225, 333 .....	7
Microbiology 301 .....	5
Printing and Photography 260a .....	4
Radio-TV 161 .....	4
<i>Electives</i> .....	22
Recommended electives: Clothing and Textiles 127a, 135, 231; Food and Nutrition 371, 420; Home and Family 424; Journalism 331, 392; Marketing 337.	
<i>Total</i> .....	192

### *Food and Nutrition Science*

These courses give a strong scientific education to those interested in preparing for graduate study in food, nutrition or related discipline; for research in university, industrial or governmental laboratories; or for educational and promotional work in industry or public health organizations.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ....	84
<i>Requirements for Concentration in Home Economics</i> .....	89
GSA 101a, 301, 313; GSB 102; 201; GSC 100 or 101, 102, 103 .....	(35) + 1
Anthropology 402 .....	4
Chemistry 111b, 305a, 350 .....	(4) + 19
Clothing and Textiles 131 .....	3
Food and Nutrition 100, 256, 320, 360a, 356, 390, 420, 421, 490 .....	31

Guidance 305 .....	4
Home and Family 227, 237, 341 .....	10
Home Economics Education 306 .....	2
Mathematics 111-10, 410-4 .....	(9) + 5
Microbiology 301, 422 .....	10
<i>Electives</i> .....	19
Recommended electives: Chemistry 230, 451a; Food and Nutrition 335; Health Education 325; Home and Family 331; Psychology 211a,b.	
<i>Total</i> .....	192

### General Home Economics

These courses emphasize the personal development of the student and preparation to carry the responsibilities of homemaking and citizenship.

*General Studies Requirements* (See Chapter 3. Waive GSB-3.) .... 84

*Requirements for Concentration in Home Economics* ..... 66

GSA 101a; GSB 101b,c; 201b,c; GSC 100 or 101, 102, 103;

GSD 108-9 ..... (30)

Chemistry 110, 240 ..... (4) + 4

Clothing and Textiles 127, 131, 135, 233, 327 ..... 16

Food and Nutrition 100, 256, 320, 321, 335 ..... 18

Home and Family 227, 237, 323, 324, 331, 332, 341, 345b, 366 28

*Electives* ..... 42

Recommended electives for a General Curriculum: Clothing and Textiles 231, 360; Health Education 310; Home Economics Education 111.

Recommended electives for the Child Development Family Relations area: Guidance 412; Home and Family 345a, 407, 456, 466, 471; Psychology 301, 303, 304, 305; Sociology 340.

Recommended electives for the Consumer Services area: Clothing and Textiles 300, 332, 339; Food and Nutrition 356; Home and Family 407, 424, 435, 471; Journalism 331, 360, 370, 391, 397; Radio-TV 161, 257.

*Total* ..... 192

### Institution Management

These courses prepare students to fill positions as food service managers for residence halls, hotels, tearooms, school lunchrooms, and industrial or commercial restaurants. They meet the requirements of the National Restaurant Association.

*General Studies Requirements* (See Chapter 3. Waive GSB-3.) .... 84

*Requirements for Concentration in Home Economics* ..... 88

GSA 101a, 301, 302; GSB 102a,b; 201b,c; GSC 100 or 101, 102, 103; GSD 108, 109 ..... (44) + 1

Accounting 251a,b ..... 8

Chemistry 110, 240, 350 ..... (4) + 8

Clothing and Textiles 131 ..... 3

Food and Nutrition 100, 256, 320, 335, 360-8, 361, 362, 363 .. 32

Home and Family 227, 237, 331, 341 ..... 13

Home Economics Education 306 ..... 2

Management 371, 382, 385 ..... 12



Microbiology 301 .....	5
Psychology 320 .....	4
<i>Electives</i> .....	20
Recommended electives: Clothing and Textiles 127a; Food and Nutrition 321, 371, 390, 420; Home and Family 332; Microbiology 422.	
<i>Total</i> .....	192

Interior Design

These courses prepare students for positions on interior designing staffs of department stores, in consultant capacities in allied fields, and in establishing an interior designing business. They meet the educational requirements for membership in the American Institute of Interior Designers.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ....	84
<i>Requirements for Concentration in Home Economics</i> .....	96
GSA 101a; GSB 201b,c; GSC 101, 102, 103, 340, 341, 342	
or art history—choice; GSD 108a .....	(30) + 3
Chemistry 110, 240 .....	(4) + 4
Clothing and Textiles 127a, 131, 135, 231, 300, 331, 380, 381, 382, 390, 391-15, 394, 395 .....	58
Design 100 .....	10
Food and Nutrition 100 .....	3
Home and Family 227, 237, 331, 341 .....	13
Home Economics Education 306 .....	2
Industrial Technology 304a .....	3
<i>Electives</i> .....	12
Recommended electives: Accounting 250; Art 385, 471, 473; Clothing and Textiles 322, 371, 431, 432, 470; Guidance 305; Home and Family 323, 324, 332; Industrial Technology 316a; Journalism 370, 260a, 331, 393; Management 271, 371.	
<i>Total</i> .....	192

Merchandising

These courses provide fundamental training for positions as salespeople, buyers, and department managers in department stores and other retail stores dealing with apparel and home furnishings. They include work in marketing, advertising, accounting, journalism, and merchandising, as well as clothing, textiles, and home furnishings. A period of field experience in the area of the student's special interest is provided.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ..	84
<i>Requirements for Concentration in Home Economics</i> .....	92-95
GSA 101a; 102-8, 201-8; GSC 100 or 101, 102, 103 .....	
Accounting 250 .....	4
Chemistry 110, 240 .....	(4) + 4
Clothing and Textiles 127-8 *, 131, 135, 231, 233, 300, 322, 327, 329, 334, 339, 360, 364, 371, 434 .....	46-49
Food and Nutrition 100 .....	3
Home and Family 227, 237, 323, 331, 341 .....	15
Home Economics Education 306 .....	2

\* Students may request exemption from 127b



Marketing 225, 325, 329, 333, 337 or Finance 370 .....	18
<i>Electives</i> .....	13-16
Recommended: Art 385; Clothing and Textiles 127b, 331, 382, 431, 474; Guidance 305; Home and Family 324, 332; Journal- ism 260a; Management 271, 371; Marketing 401.	
<i>Total</i> .....	192

### *Teaching Vocational Homemaking*

These courses meet the needs of students desiring to teach home economics in school departments maintained according to the provisions of the federal vocational acts. A vocational home economics certificate requires a bachelor's degree in home economics from an institution and in a course of study approved for teacher training by the Vocational Division of the United States Office of Education and by the State Board for Vocational Education and Rehabilitation. Southern Illinois University is so approved for training home economics teachers.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ....	84
<i>Requirements for Concentration in Home Economics</i> .....	107
GSA 101a, 301; GSB 102-8; 211-8; GSC 101, 102, 103 .....	(24) + 9
Chemistry 110, 240 .....	(4) + 4
Clothing and Textiles 127, 131, 135, 233, 327 .....	16
Food and Nutrition 100, 256, 320, 335 .....	15
Guidance 305 .....	4
Home and Family 227, 237, 323, 324, 331, 332, 341, 345b ....	25
Home Economics Education 111, 309-6, 310 .....	12
Secondary Education 310, 352b .....	16
Electives in home economics .....	3
Electives in education .....	3
<i>Electives</i> .....	1
Recommended electives: GSB 331; Secondary Education 407, 440; Guidance 422; Education Administration 355; Instructional Ma- terials 417.	
<i>Total</i> .....	192

### *Extension*

These courses prepare students for positions as Home Advisers, 4-H Club Agents or Advisers, and, with further training, extension specialists.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ....	84
<i>Requirements for Concentration in Home Economics</i> .....	100
GSA 101a, 301; GSB 102-8, 201-8, 211-8; GSC 101, 102, 103 .....	(24) + 9
Chemistry 110, 240 .....	(4) + 4
Clothing and Textiles 127, 131, 135, 233, 327, 360 .....	20
Food and Nutrition 100, 256, 320, 335 .....	15
Home and Family 227, 237, 323, 324, 331, 332, 341, 345b, 366 ..	28
Home Economics Education 111, 370, 371 .....	13
Health Education 310 .....	4
Journalism 393 .....	3
Radio-TV 161 .....	4
<i>Electives</i> .....	8

Recommended electives: Guidance 305; Secondary Education 310;  
Home Economics Education 309–6; Instructional Materials 417.  
417.

Total .....	192
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Industrial Technology

The complexity of our technological society has created an increasing demand for the services of new types of professional workers known as technologists. These are resourceful, creative men trained for proficiency and versatility in the techniques of industrial design and development, manufacturing, management and various technical liaison areas. The services of these men have become increasingly important because they have proven their capabilities and worth by serving effectively on the Technical-Industrial “team” with scientists, engineers, managers, and craftsmen. In so doing, they fulfill an important liaison function, and one for which they are ideally suited by virtue of their technical training and their knowledge and understanding of human relations.

Federal statisticians report that in the present decade the demand for technologists and related worker groups will exceed that for all other occupational groups. To the technologist, industry offers increasingly interesting and rewarding positions, with considerable potential for growth and advancement.

The student preparing himself for entrance into any of the numerous challenging areas of industrial technology must first acquire a comprehensive background of scientific, engineering, technological and business principles and applications, as well as specialization in at least one area. He must augment this background with a growing ability to utilize this knowledge effectively in making timely decisions and sound judgments. Because he will later be intimately involved with people in his work, the future technologist must acquire proficiency in personal relationships and acquire effective communication skills. He must also broaden his outlook enough to understand the socio-economic trends he observes, especially as they may presage changes in his work.

The industrial technology curriculum is a four-year concentration of courses leading to the Bachelor of Science degree and designed to prepare an individual for employment as a technologist in a variety of technological areas.

Bachelor of Science Degree, SCHOOL OF TECHNOLOGY

General Studies Requirements (See Chapter 3. Waive GSB–3.) ....	84
Requirements for Concentration in Industrial Technology .....	113
GSA 358 .....	(6)
GSB 361 .....	3
Mathematics 111–10 .....	(9) + 1
Applied Science 307 .....	5
Engineering 222 .....	3
Engineering Technology 465 .....	4
Industrial Technology 300, 314–6, 318c, 325, 343–3, 351b ...	22
Management 380, 382 .....	7
Psychology 320 .....	4
Technology 100, 101–9, 300c .....	14



Specialization .....	50
The student may elect to specialize in areas such as industrial design, manufacturing, supervision, processes, safety, aviation, transportation, and planning.	
Total .....	197

**Instructional Materials**

Courses in the utilization and administration of teaching materials are designed to train both audio-visual coordinators and librarians to become fully qualified instructional materials specialists who can administer all teaching materials.

*Secondary Concentration*

Persons trained primarily as teachers may qualify for part-time professional service in a school library by completing 28 hours of work in approved courses which are 308, 403, 405, 406, 407, 417, and 420.

**Inter-American Studies**

The Inter-American Studies program, under the direction of the Latin American Institute, was initiated in 1958 to meet the ever-increasing demand for personnel qualified to deal with questions related to Mexico and the countries in Central America, the Caribbean, and South America. Government, business, and other interests require the services of individuals who have a general comprehension of the problems and potentialities of the area, plus the necessary language skills to make possible graduates' highest-level performance in the field. Thus, the course of studies for this program is necessarily interdisciplinary. The student is given a firm general background in the history, geography, economics, anthropology, language, and literature of the English, Portuguese, and Spanish speaking countries in the New World. Further, special emphasis is placed upon the students' acquiring a working knowledge of Spanish and Portuguese. This level of linguistic skill is essential to permit a clear understanding of Latin Americans of all levels and backgrounds and as an indispensable skill or tool for anyone who intends to work in any professional capacity in Latin America regardless of an individual's specialized field of interest in business, government, agriculture, teaching, research, etc.

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) ....	84
<i>Requirements for Concentration in Inter-American Studies</i> .....	83
GSB 303, 392 .....	(6)
GSD FL .....	(9)
GSD 135-9, Portuguese .....	9
Anthropology 305a, 306a .....	6
Economics 419, 429 .....	8
Foreign Languages: Spanish 201-9, 220-6, 320-6, 333-9 ....	30
Geography 467 .....	7
Government 453, 458 .....	6
History 352a,b, and 3 hours chosen from 352c, 471, 473 ....	9
Philosophy 340; 477 or 478 .....	8



Electives .....	25
Total .....	192

Students coming to Southern Illinois University without any foreign language must take GSD 140-9 and Spanish 140 as prerequisites to the specified courses in the language. If their special interests demand, they should expect also to take such additional courses as desired in psychology, sociology, economics, or business administration.

Journalism

Journalism courses are designed to give thorough professional training in both theory and practice in a number of fields of journalism. The areas include daily and weekly newspapers, advertising, periodicals, radio and television news, education, free lance writing, industrial publications, news agencies, public relations, and research. In addition to courses, professional conferences, field trips, aid to high school newspapers and year-books are offered.

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

Journalism students must demonstrate a working knowledge of typewriting based upon a minimum straight copy rate of thirty words per minute. This proficiency may be demonstrated during the first year and must be demonstrated by the end of the junior year. Enrollment in Secretarial and Business Education 201a for no academic credit is an acceptable substitute for the proficiency examination.

Subject to the approval of the department chairman, undergraduate students may receive as much as 12 hours of journalism credit toward their degree for work not taken in residence on the Carbondale campus.

All students' course schedules must be approved by the chairman or his representative.

General Studies Requirements (See Chapter 3. Waive GSB-3.) ..	84
Requirements for Concentration in Journalism .....	48
Journalism 101, 102 (Freshmen and sophomores) or 345,	
346 (juniors, seniors) 103, 201, 202, 383-6, 399 .....	22
One of the five specializations below .....	15-21
Advertising: 370, 371, 372, 373, 374, 376 .....	21
Community Newspaper: 303, 330, 350, 351,	
370, 371, 442 .....	21
Magazine: 297, 303, 369, 397, 398, 442 .....	18
News and Editorial: 303, 330, 390, 391, 442 .....	15
Radio and Television: 303, 442, R-T 161, 251, 310,	
385 .....	20
Journalism electives to complete 48 hours .....	5-11
Electives .....	60
At least 40 hours of upper class course work in the departments of Anthropology, English, Economics, Foreign Languages, Government, History, Philosophy, Psychology, Sociology, or other areas as approved by the chairman exceptions may be made to meet the requirements of students preparing to teach high school journalism.	
Total .....	192

*Bachelor of Science Degree, COLLEGE OF EDUCATION*

*Requirements for Concentration in Journalism:*

Journalism 101, 102, 103, 201, 202, 303, 390, 421, 422 .....	28
Recommended electives are Journalism 214, 260a, 370, 391.	

*Secondary Concentration*

The 24-hour concentration in journalism consists of English 300, 392, and an elective in journalism.

**Management**

Courses are offered in these areas of management: general, production systems, and personnel management. Students who do not wish to specialize will select the first area. The latter two areas are more restrictive in their requirements. The objective is to provide a broad, general, liberal educational experience rather than a narrow professional training.

*Bachelor of Science Degree, SCHOOL OF BUSINESS*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) .....	84
<i>Professional Business Core</i> .....	42
GSB 211a, and GSD 110 .....	(7)
Accounting 251-12 .....	12
Economics 214, 215 .....	6
Finance 320, 371 .....	9
Management 340, 481 .....	8
Marketing 225, 325 .....	7
<i>Requirements for Concentration in Management</i> .....	36
GSB 102-8, 201-8 .....	(12) + 4
Management 361, 350 or 380, 385, 479, 473 .....	20
Management: one of the Specializations below .....	12
General: 327, 421, 475 .....	(12)
Personnel: 382, 480, 485 .....	(12)
Production and Management Systems: 451, 452, one of 350, 382, or 483 .....	(12)
<i>Electives</i> .....	30
<i>Total</i> .....	192

**Marketing**

Marketing consists of the performance of business activities that direct the flow of goods and services from producers to consumers and business users. The list of courses, below, reflects the philosophy that students seeking careers in selling, advertising, transportation, retailing, wholesaling, purchasing, credits, marketing research, and related fields need a balanced program of liberal and professional education.

*Bachelor of Science Degree, SCHOOL OF BUSINESS*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) .....	84
<i>Professional Business Core</i> .....	42
GSB 211a and GSD 110 .....	(7)
Accounting 251-12 .....	12



Economics 214, 215 .....	6
Finance 320, 371 .....	9
Management 340, 481 .....	8
Marketing 225, 325 .....	7
Marketing Electives .....	12
Speech 301-4 .....	4
<i>Requirements for Concentration in Marketing</i> .....	48
GSA 102-8, 201-8 .....	(12) + 4
Economics 440, 441 .....	8
Management 361, 479 .....	8
Marketing 490 and one of five combinations: 329 and 401, 333 and 463, 337 and 438, 341 and 452, 336 and 439 .....	12
<i>Electives</i> .....	18
<i>Total</i> .....	192

### Mathematics

Students intending to concentrate in mathematics must plan schedules of mathematics courses numbered above 299 with a mathematics adviser. Mathematics grade must be at least C in courses numbered 150 or above.

#### *Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) ....	84
<i>Requirements for Concentration in Mathematics</i> .....	60
GSD FL (French, German, or Russian recommended) .....	(9)
Mathematics 111-10 or advanced standing .....	10
Mathematics 150-10, 252-9 (A student may by-pass any of these in which he can demonstrate competence.) .....	19
Mathematics electives numbered above 299, excluding 311 and 410, but including three of the following nine sequences: 305-6; 320-6; 335-6; 421-6; 428-6; 452-6; 475-6; 480-7; 483-8. At least one of the three sequences must be on the 400 level; either 320-6 or 421-6 must be included. ....	24
At least 6 hours in Physics courses numbering 300 or higher (or a replacement chosen from a list of alternative op- tions available in the departmental office). ....	(4) + 7
<i>Electives</i> .....	48
<i>Total</i> .....	192

#### *Bachelor of Science Degree, COLLEGE OF EDUCATION*

<i>Requirements for Concentration in Mathematics</i> .....	54
GSD FL (French, German, or Russian recommended) .....	(9)
Mathematics 111-10 or advanced standing .....	10
Mathematics 150-10, 252-9 (or by-pass) .....	19
Mathematics electives numbered above 299, excluding 410-16 but including 311 and three of the following ten sequences: 305-6; 320-6; 335-6; 421-6; 428-6; 452-6; 458-6; 475-6; 480-7; 483-8. At least one of the three sequences must be on the 400 level; either 320-6 or 421-6 must be included. The recommended sequences are 320-6; 335-6; 458-6 .....	24
Physics 211a (211b,c recommended) .....	(4) + 1



Other requirements are listed under Secondary Education. Mathematics 311 may be substituted for Secondary Education 315.

*Secondary Concentration*

A secondary concentration in mathematics must include Mathematics 252a and at least 12 hours of courses numbered above 252a other than 410. At least a C is required in all mathematics courses numbered 150 and above.

**Microbiology**

Microbiology is a study of micro-organisms. It includes forms, classification, growth and reproduction, heredity, biochemistry, ecology, and effects on man. Such a program prepares one for graduate and eventually research work in governmental or private settings. Some of the specializations available include bacteriology, virology, immunology, serology, fermentation, and the testing and production of biological products.

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . . .	84
<i>Requirements for Concentration in Microbiology</i> . . . . .	53
GSA 201-8, or equivalent . . . . .	(8)
GSD FL . . . . .	(9)
Mathematics 111-10 . . . . .	10
Microbiology 301, 302, 403, 425, 426, 441, 451 . . . . .	32
Microbiology electives to complete 43 hours . . . . .	11
<i>Secondary Concentration</i> . . . . .	24
Chemistry 111-14, 305-9, and electives . . . . .	(4) + 24
<i>Electives</i> . . . . .	31
<i>Total</i> . . . . .	192

*Secondary Concentration*

A secondary concentration in microbiology consists of 24 hours, to include 301, 302, and other courses determined by the student in consultation with his microbiology adviser.

**Music**

During each academic year, a series of distinguished musicians join the faculty and students for a period of workshops, seminars, and performances. The roster for the past few years has included the following: Carl Weinrich, organist; Ernest and Lory Wallfisch, viola and piano duo; Willi Apel, Louis Cuyler, and Nicholas Slonimsky, musicologists; Joseph Szigeti, violinist; Robert Goldsand, pianist; and Reginald Kell, clarinetist; and Nadia Boulanger.

In addition, artists from related fields have included Katherine Dunham, dancer; Edith Lutyens Bel Geddes, costume supervisor; and Max Kaplan, musicologist-sociologist.

*General Requirements*

The requirements for entrance and for graduation as set forth in this bulletin are in accordance with the published regulations of the National

Association of Schools of Music, of which the Department of Music is a member.

Each resident music student must maintain a satisfactory membership in either a university band, orchestra, or chorus every quarter he is enrolled at Southern Illinois University, with the exception of the student teaching quarter.

It is required that all students with a concentration in music reserve the ten o'clock hour on Mondays for music convocations and studio recitals.

Bachelor of Music degree students with a concentration in applied music must present a half-recital in their junior year and a full recital in their senior year. Those with a concentration in music education must present a half-recital in their senior year.

A minimum of ten recitals per quarter must be attended by each student concentrating in music; five recitals per quarter for those with a secondary concentration in music. A deficiency in recital attendance for any one year will result in the student's being given a grade of incomplete in his applied music.

Each candidate for the Bachelor of Music degree must pass the proficiency examination in secondary piano. A student with inadequate preparation in piano must elect class piano each quarter of his freshman and sophomore years. If he fails to meet the basic piano requirements at the end of the sophomore year, he must continue in class piano without credit until he passes the test. One concentrating in music education must also pass a proficiency test in voice or elect class voice until he can pass the proficiency test. It is the responsibility of each student, with the assistance of his adviser and instructors, to meet these minimum requirements.

*Bachelor of Music Degree, SCHOOL OF FINE ARTS*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . .	84
<i>Requirements for Concentration in Music</i> . . . . .	114-120
GSC 357-9 . . . . .	9
Music (Theory) 105-12; 205-9; 326-6; 441-6 . . . (3) +	30
Music (Applied) 12 quarters of ensemble . . . . .	12
Piano proficiency . . . . .	0-6
One of the specializations listed below <sup>1</sup> . . . . .	66
<i>Applied Music</i>	
Major instrument or voice, 12 quarters <sup>2</sup> . . . . .	48
Additional theory courses . . . . .	6
Electives in music . . . . .	12
<i>Music Theory-Composition</i>	
Major instrument or voice, 12 quarters . . . . .	36
Advanced theory-composition courses . . . . .	12
Electives in music . . . . .	18
<i>Music History-Literature</i>	
Major instrument or voice, 12 quarters . . . . .	24
Advanced and related courses in music history and literature . . . . .	18

<sup>1</sup> Before the end of his sophomore year the student should choose an area of specialization. This choice is subject to approval by the faculty adviser and the chairman.  
<sup>2</sup> For students combining this specialization with the prescribed courses for state certification in education, the applied concentration will be elected for 2 hours per quarter, totaling 24 hours.



Electives in music theory .....	12
Additional electives in music .....	12
<i>Total</i> .....	201-207

### *Music Education*

The following requirements may be satisfied in twelve quarters; they meet the requirements for the State Special Teaching Certificate.

*General Studies Requirements* (See Chapter 3. Waive GSC-3.) .. 84

*Requirements for Concentration in Music* ..... 88-95

GSC 357-9 ..... (6) + 3

Music (theory) 105-12, 205-9, 326-9 or 441-6 .... (3) + 24

Music (education) 300a, 305i or v; 309a, 318a,b ..... 12

(Three hours of above counted in Professional Education below)

Music (applied) 11 quarters of major ensemble and 11 quarters of major instrument or voice ..... 33

Piano proficiency or class ..... 0-6

Voice proficiency or class ..... 0-1

Music: class woodwinds, brass, and strings ..... 6

(2 hours except in major area and one hour of percussion—required of instrumental or combination majors)

Music electives to increase specialization in instrumental music (string, winds, keyboard, brass or percussion) and vocal music (choral, opera, music theater, elementary education) ..... 4

*Professional Education Requirements*<sup>1</sup> ..... 27

English 391 or proficiency examination ..... (3)

Guidance 305 ..... 4

Secondary Education 310 ..... 4

Education elective ..... 4

Music (Education Methods) 451 ..... 3

Secondary Education 352 ..... 12

Before a student is approved for student teaching he must satisfy the course of study and proficiency prerequisites as established by the Department of Music.

*Total* ..... 199-206

### *Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

These courses are for students who wish to specialize in music as part of their general cultural education. They may also be taken as background training by those who may plan to pursue advanced studies in such fields as music criticism and aesthetics.

Required courses are 105-12, 205-9, GSC 357-9, applied music courses totaling 12 hours, and electives in music to complete a total of 60 hours.

### *Secondary Concentration*

The secondary concentration in music includes 105-12, 140-6, 240-6, GSC 357-9 and music electives to complete 42 hours. The student must attend a minimum of five campus recitals or concerts per quarter for a total of fifteen events.

<sup>1</sup> As a prerequisite to teaching in the public schools, an individual must pass a test on State Constitution and History or successfully complete either GSB 211b or Government 300.



Nursing

At present all of the program may be taken at the East St. Louis Center; or the first four quarters including the summer quarter of the first year which is preclinical and primarily liberal arts subjects, may be taken on the Carbondale Campus; the remainder must be taken at the East St. Louis Center starting in the fall quarter of the sophomore year.

Philosophy

General Studies courses in philosophy are available at each level for use in partial satisfaction of the requirements in Area C. The prospective philosophy student is advised to elect at least one such course at each of the first two levels.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (See Chapter 3.)	90
Requirements for Concentration in Philosophy	39
GSC 381, 382, 383, GSD FL (15) + 3	
Philosophy 300, 320, 481a, GSC 386, 387 (Any two)	6
Philosophy electives to complete 45 hours, 3 of which may be selected from philosophy courses in the first two levels of General Studies	30
Secondary Concentration	24
Electives	39
Total	192

Secondary Concentration

A secondary concentration in philosophy requires 24 hours, 6 of which may be selected from philosophy courses offered at the first two levels of General Studies and 12 of which should be selected from the courses listed above for the Bachelor of Arts degree.

Photography

These courses give thorough professional training in both theory and practice of photography. Students purchase supplies for most photography courses.

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

General Studies Requirements (See Chapter 3. Waive GSC-3.)	84
Requirements for Concentration in Photography	59-61
Art 100-10 (3) + 7	
Printing and Photography 260-12, 303, 309a, 341-10, 360a-3, 401, 402, 408, 428, 429 and additional courses depending upon specialization:	52-54
309b, and 360b or 360c or 364 for general photography	
360b,c and 364 for publications photography	
Electives	47-49
Total	192

Physical Education

These courses are intended to qualify young people for positions as teachers, coaches, or specialists in public and private elementary or secondary schools, colleges, and universities as well as other social agencies which promote physical activity programs. They have been designed to meet the requirements of state departments of education and other agencies which have adopted professional standards.

Complete and integrated experience in teaching physical education and assisting in coaching under qualified supervisors is provided in the co-operating schools of the area. Added experiences are gained through membership in the Physical Education Club; membership in professional associations; participation on intramural teams; assisting in service class testing; professional journals; and working with recreational and school groups in teaching techniques of various activities.

Bachelor of Science Degree, COLLEGE OF EDUCATION—MEN

General Studies Requirements (See Chapter 3. Waive GSA-3.)	84
Requirements for Concentration in Physical Education	52
GSA 301	3
Physical Education for Men 100-18, 101, 303, 305, 341, 350, 354, 355, 370, 376, 420, and one sport theory course .. (3) +	45
Physiology 300	4
Professional Requirements (See page 000, item 4.)	20
Secondary Concentration	24
Electives	12
Recommended are Health Education 460, and Recreation and Outdoor Education 365.	
Total	192

Secondary Concentration—Men

A secondary concentration is 40 hours and must include 100-18, 303, 305, 350, 354, 370, 376, Physiology 300, and GSA 301.

Bachelor of Science Degree, COLLEGE OF EDUCATION—WOMEN

General Studies Requirements (See Chapter 3. Waive GSA-3.)	84
Requirements for Concentration in Physical Education	58
Physical Education for Women 113, 114, 211, 212, 222, 224, 228, 242, 244, 303, 304-10, 308, 350, 351, 352, 353, 354, 355, 370	(3) + 50
Health Education 334, 460	8
Secondary Concentration	24
(Required for Standard High School Certificate; not required for Standard Special Certificate)	
Professional Education Courses (See page 000, item 4.)	29
Electives	(13)
Physical Education for Women 317, GSE 144a,b,d,e,i,m,p	3
Physical Education for Women 311, 374, 376, GSE 113e	2
Total	195

Anyone who transfers from another university and wants to concentrate

in physical education for women must complete a minimum of 15 hours in physical education senior college courses at Southern Illinois University.

Secondary Concentration—Women

*Requirements for a Secondary Concentration in Dance* ..... 30  
GSE 113a,b,d,e  
Music 200  
Physical Education for Women 273, 308, 312, 313, 374, 376, 405  
Electives GSC 203, 207, GSE 113c, 114p, Music 346, Physical Education for Women 272, 304e, Theater 305.

*Requirements for a Secondary Concentration in Physical Education for the High School Teacher* ..... 30  
Health Education 334  
Physical Education for Women 113, 222, 224, 228, 242, 304–8, 308, 353, 354, plus 2 additional activity courses

*Requirements for a Secondary Concentration in Physical Education for the Elementary School Teacher* ..... 30  
GSE 112, 113b,d  
Health Education 334  
Physical Education for Women 304, 308, 350 or 319, 353, 354, plus 4 additional activity courses

Physics

A student considering a concentration in physics is urged to consult with a representative of the physics faculty.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

*General Studies Requirements* (See Chapter 3. Waive GSA–3.) .. 84

*Requirements for Concentration in Physics* ..... 100–113  
GSD FL ..... (9)  
Chemistry 111–10 ..... (4) + 6  
Mathematics 111–10, 150–10, 252–9, 305–6 ..... 38  
Physics 211–15 (or 111–9, and 112–3 or 206–9 and 207–3); 301, 304, 305, 307, 309, 310, 401, 404, 410a, 415–12, plus 4 hours from 311, 312, and 418 .. (4) + 56–59

*Electives* ..... 5–8  
Recommended: Applied Science 420, 421, 422; Chemistry 235, 461, 464; Engineering 222, 313, 334, 335, 352, 361, 420, and 462; Mathematics 420, 421, 452, 480, and 483.

*Total* ..... 192

Bachelor of Science Degree, COLLEGE OF EDUCATION

For this degree the requirements differ from those for the Bachelor of Arts degree in the following respects: No foreign language is required. Thirty-three hours of 300 or above physics courses, including 301, 305, 415–12 and 6 hours of laboratory courses selected from 307, 311, 312 and 418.

Secondary Concentration

A secondary concentration in physics requires 24 hours and must in-



clude Physics 211–15 (or for students not taking calculus, Physics 206–9 and 207. Other courses not requiring calculus include Physics 300, 309, 310, 311, and 312).

### Physiology

*Bachelor of Arts Degree*, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA–3.) ..	84
<i>Requirements for Concentration in Physiology</i> .....	42–72
GSD FL .....	(9)
Physiology electives selected in consultation with the chairman to total at least 42 hours .....	42
A background of basic courses in chemistry, mathematics, and physics is required. Courses in botany and zoology are recommended .....	0–30
<i>Electives</i> .....	36–66
<i>Total</i> .....	192

### Secondary Concentration

A secondary concentration in physiology requires a minimum of 24 hours.

### Plant Industries

Instruction, research, demonstration, and consultation, both basic and applied, are provided in the areas of production and utilization of fruits, vegetables, grain and forage crops, and ornamentals, and in the field of soils and soil management.

Courses are offered in all phases of intensive and extensive crop production, soil science, soil and water conservation, fertilizers and plant nutrition, weed control, and related subjects.

The student has ample opportunity to select courses in other areas within the School of Agriculture or related fields outside of agriculture, such as business, and the biological and physical sciences; this enables him to include in his training not only the *how* but the *why* in crop production and utilization.

*Bachelor of Science Degree*, SCHOOL OF AGRICULTURE

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . . .	84	
<i>Requirements for Concentration in Plant Industries</i> . . . . .	72	
	GENERAL	SCIENCE
GSB 211a . . . . .	(4)	(4)
GSD 103, Mathematics 111-10 . . . . .	(12) + 1	(12) + 1
Chemistry 111a or b or GSA 101b . . . . .	(4) + 1	(4) + 1
Chemistry 111-10 . . . . .	0	10
Plant Industries 103, 264, 309, and others .	36	36
Agricultural Industries, Animal Industries, Forestry (work in two departments) ..	7	7
Electives in agriculture . . . . .	17	5
Mathematics, physical sciences, and bio- logical sciences . . . . .	10-12	13
<i>Electives</i> (to complete the program objectives) . . . . .		36
<i>Total</i> . . . . .		192

Printing Management

The printing management course of study is designed to prepare students to enter the printing field as supervisors, cost estimators, and salesmen.

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

General Studies Requirements (See Chapter 3. Waive GSB-3.)	84
Requirements for Concentration in Printing Management	71
GSB 211-8	(8)
GSD 108-9	(9)
Accounting 250, 415	8
Economics 214, 215	6
Management 340, 371, 385	12
Marketing 225	3
Printing and Photography 302, 308-7, 312, 314, 365, 366, 379-9, 381-8, 384	42
Electives	37
Total	192

Psychology

Undergraduate courses in psychology introduce the student to the methods and findings of the scientific study of human behavior. He is given an opportunity to learn what research has shown about how we perceive, learn, and think; how individuals differ from one another; how the personality develops from infancy to maturity; and how interpersonal factors affect human relations in the home, on the job, and in the community.

The undergraduate concentration in psychology is primarily aimed at providing broad general education rather than specialized professional training in psychology; to become a professional psychologist the student must usually complete from two to four years of postgraduate study.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (See Chapter 3. Waive GSB-3.)	84
Requirements for Concentration in Psychology	44
GSA 301	4
GSD FL	(9)
Psychology 211-8	8
For Students Planning Graduate Study: 311; any one of 312, 313, 314; any two of 301, 303, 304, 305, 307, 320, 322; any two of 404, 406, 407, 408, 409, 421, 431, 440, 451, 461, 471; and any two additional courses from above. For Students Planning no Graduate Study: 32 hours including at least three 400-level courses	32
Electives	64
Total	192

Secondary Concentration

Twenty-four hours are required and may be selected from courses listed in this catalog.



**Radio-Television**

*Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in Radio-Television</i> . . . . .	48
Radio-Television 161, 251, 252, 260, 273, 351, 352, 363, 364, 373, 374 (8-12), 383, 393, and electives to total 48 hours	
<i>Secondary Concentration in a Related Area</i> . . . . .	24
<i>Electives</i> . . . . .	36
<i>Total</i> . . . . .	192

Each student with a concentration in Radio-Television must by the end of his sophomore year:

1. Either (a) successfully pass an English Qualifying Examination, or (b) in lieu of such an Examination, achieve a grade of *B* in both GSD 101, 102, or (c) a grade of *C* in English 391, or (5) if the student has a secondary concentration in English, a grade of *C* in English 390.
2. Either (a) demonstrate proficiency in typing at 30 words per minute by passing a test administered by the Department of Secretarial and Business Education, or (b) pass Secretarial and Business Education 201a with a grade of *B*.

**Recreation and Outdoor Education**

Because of its relatedness to many academic fields, the recreation and outdoor education curriculum at Southern Illinois University builds its foundation on a good General Studies program and draws from several colleges and departments in the preparation of leaders for the many positions concerned with the recreative use of leisure time.

The curriculum emphasizes the practical as well as the theoretical aspects of recreation leadership. In addition to the General Studies requirements, several special courses are required in the student's professional field.

Each student is expected to choose courses which will give him a broad background in recreational activities and skills. These courses may be selected from such areas as music and dance, arts and crafts, drama, sports and games, and nature and conservation.

Students with a concentration in Recreation and Outdoor Education must complete 16 hours of practicum in two areas of interest, have 28 hours of professional recreation courses, and work closely with the department chairman in choosing related courses in other departments of the University, according to the student's chosen area of specialization.

The Department of Recreation and Outdoor Education offers courses leading to leadership specialization in (1) school and community recreation, (2) recreation for special populations, (3) outdoor recreation management, and (4) outdoor education.

Those students who wish to pursue a concentration in recreation and desire to teach must fulfill the course requirements in the College of Education, including a teaching concentration and practice teaching.

Students who have a concentration in recreation and do not fulfill the requirements in the College of Education for teaching must sign a statement indicating that they understand that they do not meet the state



and college requirements for teaching and intend to work in recreation positions.

Students concentrating in recreation are encouraged to obtain the following certificates: American Red Cross Life Saving and Water certificate, American Camping Association Campcraft certificate. Other certificates in the activity and instructional areas are also available.

*Bachelor of Science Degree, COLLEGE OF EDUCATION*

*General Studies Requirements* (See Chapter 3. Waive GSB-3.) . . . . 84

*Requirements for Concentration in Recreation and Outdoor Education* . . . . . 85-107

Government 232 . . . . . 5

Guidance 305 . . . . . 4

Health Education 345 . . . . . 4

Management 340 . . . . . 4

Recreation and Outdoor Education 201, 202, 310, 320, 330, 365, 425, 490 . . . . . 40

Speech 303 . . . . . 4

One of the Following Four Specializations: . . . . . 24-46

*Community Recreation*

GSA 312, 340 . . . . . (6)

GSB 321 . . . . . (3)

Art 306 . . . . . 4

Technical and Industrial Education 303 . . . . . 4

Music 200, 300b . . . . . 6

Physical Education 220, 221 . . . . . 4

Instructional Materials 417 . . . . . 4

Psychology 301, 303, 304 . . . . . 12

Sociology 340, 373 . . . . . 8

*Recreation For Special Populations*

GSB 321 . . . . . (3)

Health Education 203 . . . . . 3

Physical Education 220, 221, 305 . . . . . 6

Psychology 301, 303, 304 . . . . . 12

Recreation and Outdoor Education 302, 340 . . . . . 6

Sociology 372, 373 . . . . . 8

Special Education 410 . . . . . 8

*Outdoor Recreation Management*

GSA 312, 340 . . . . . (6)

Botany 313, 341 . . . . . 6

Forestry 350a, 410 . . . . . 6

Geology 221 . . . . . 5

Plant Industries 301, 304, 306a . . . . . 10

Zoology 102, 103, 310, 303 . . . . . 19

*Outdoor Education*

Students who plan to teach, with an area of concentration in Outdoor Education, should choose their electives from the courses listed below:

Recreation and Outdoor Education 301 . . . . . 4

GSA 312, 340 . . . . . (6)

GSB 321 . . . . . (3)

Education Administration 355 . . . . . 4

Guidance 442 . . . . . 4

Psychology 301, 303 .....	8
Instructional Materials 417 .....	4
<i>Electives</i> .....	1-23
<i>Total</i> .....	192

Students concentrating in recreation are encouraged to obtain the following certificates: American Red Cross First Aid certificate, American Red Cross Life Saving and Water certificate, American Camping Association Campcraft certificate and other certificates in instructional areas.

**Religious Studies**

*Secondary Concentration*

The secondary concentration in religious studies (30 hours) draws on the offerings of several departments and programs. Exceptions to alternatives listed may be approved by the chairman of religious studies.

<i>Western and Nonwestern Religious Thought</i> .....	18
GSC 307, 311, 312 .....	9
Religious Studies 201-6 and GSC 310; or Religious Studies 203-9, and GSC 310; or Religious Studies 203c, and 301, and GSC 310 .....	9
<i>Departmental Sequences</i> .....	12
English: 431a, 438, 473 and GSC 345	
History: 304-9, 311 or 415b	
Philosophy: 300, 301, 340 or 443 and GSC 382, 383	
Sociology: 333, 340 or 351 and GSB 201b, 325, or 341	
Psychology: 305 or 307 and GSB 201-8	

**Russian and East European Studies**

*Secondary Concentration*

A secondary concentration in area studies with specialization in Russian studies or in East European studies is offered especially for those students who also work for a concentration in foreign languages: Russian for Russian studies; German, Russian, or French for East European studies.

For either specialization a minimum of 24 hours must be earned in the chosen field, at least 12 of them in principal courses, the rest by electives. Not more than three courses in any one subject area will be counted toward fulfillment of the requirements. In exceptional cases an elective course may be substituted after consultation with the adviser for the course of study.

Principal courses for the *Russian studies* consist of Economics 460, GSB 380, Geography 464, Government 453, History 372. Electives are GSB 312, Anthropology 305b, 306b, Economics 418, 481, Geography 462, Government 455, History 312, 430.

Principal courses for the *East European studies* consist of GSB 380, 390, Economics 418, Geography 462, Government 455, History 312, 430. The electives are GSB 312, Anthropology 306b, Economics 460, 481, Geography 464, Government 453, History 372. One reading course or one independent-studies course can be used in fulfillment of the requirements. Each student's list of courses, however, should be approved by the adviser.

Secondary Education

One who is preparing to teach in junior high school, high school, or junior college does not concentrate in secondary education but must concentrate in any of the areas listed below.

The Department of Secondary Education concerns itself with the sequences of professional education courses that lead to certification for teaching in the junior high school, the high school, and the junior college. In addition, it advises students concerning areas of academic concentrations.

Bachelor of Science Degree, COLLEGE OF EDUCATION

A student in the College of Education who is preparing to teach in junior high school or high school may select areas of concentration in any of the following:

Agricultural Education	Foreign Languages	Physical Education
Art Education	Geography	Physical Science
Biological Sciences	Government	Physics
Business Education	Health Education	Social Studies
Botany <sup>1</sup>	History	Speech
Chemistry	Home Economics	Technical and Industrial
Economics	Journalism	Education
English	Mathematics	Theater <sup>2</sup>
English Language Arts	Music Education	Zoology

Secondary Concentration

With the consent of an academic adviser, a secondary concentration may be selected from the following:

Biological Sciences	Health Education	Physical Education
Botany <sup>1</sup>	History	Physics
Business Education	Home Economics	Physiology
Chemistry	Education	Psychology
Driver Education	Instructional Materials	Sociology
Economics	Journalism	Speech
English	Mathematics	Technical and Industrial
Foreign Languages	Microbiology	Education
Geography	Music	Theater
Government	Philosophy	Zoology <sup>1</sup>

Standard High School Certificate

A student may enter the Secondary Education program of the College of Education by transfer (1) from the General Studies program (provided he has attained 64 quarter hours), (2) from other academic units, or (3) from other institutions. In each case, he is subject to the following requirements.

1. He must meet the requirements related to the state and federal constitutions satisfied by either Government 231, 300 or one of the following: GSB 211b, 300a.

2. There is no general requirement in foreign language in the Depart-

<sup>1</sup> A student with a concentration in botany or zoology should have a secondary concentration in the other in order to meet certification standards for teaching biology at the high school level.

<sup>2</sup> In choosing this concentration, the number of hours required is 36; a second concentration of 36 hours must also be chosen; a secondary concentration of 27 hours is also required.



ment of Secondary Education except in those situations where the student must meet a foreign language requirement as part of his major academic concentration.

3. He must complete either one area of concentration of at least 48 hours or one area of concentration of 36 hours and two minor areas with a sufficient number of hours to meet the teaching requirements for each. (Certain broad areas including biological sciences, English language arts, physical education, physical sciences, and social studies have special certification requirements. Students electing to work in these areas should adhere closely to the course of study presented through the designated academic adviser.)

4. He must, if working for certification at the secondary level, complete the following sequence of professional education courses, for at least 32 hours.

Guidance 305 .....	4
Secondary Education 310, 315; 352-12 to 16 Student Teaching ..	19-23
Select at least two courses from the following: .....	6-8
Agricultural Industries 311	
Art 308	
Educational Administration 355	
Guidance 422a	
Home Economics Education 310	
Technical and Industrial Education 408	
Instructional Materials 417	
Secondary Education 407, 440	

5. He must satisfy the Student Teaching Prerequisites, pages 93-94 of this catalog. Anyone who wishes to qualify for the Standard Special Certificate for grades K through 12 should consult page 49 of this catalog.

A student in an academic unit other than the College of Education who desires to obtain a Standard High School Certificate should follow the teacher preparation program as described in this bulletin.

### *Standard Special Certificate*

The Standard Special Certificate is valid for four years for teaching the special subject or subjects named on the certificate in grades kindergarten through 12. This certificate may be issued to one who has a bachelor's degree and presents certified evidence of having earned credit as follows:

<i>General Studies Requirements</i> (See Chapter 3. Waive GS-3.) .....	84
<i>Professional Education Requirements</i> .....	32
Guidance 305 .....	4
Secondary Education 315 or Special Methods .....	3
Educational Administration 355 .....	4
Secondary Education 352 and Elementary Education 351 ..	12-16
Two of the following courses: .....	6-9
Agricultural Industries 311	
Art 308	
Guidance 422	
Home Economics Education 310	
Instructional Materials 417	
Secondary Education 310, 407, 440	
Technical and Industrial Education 408	
<i>Area of Specialization</i> .....	48

Electives .....	28
Total .....	192

Secretarial Studies

Bachelor of Science Degree, SCHOOL OF BUSINESS

General Studies Requirements (See Chapter 3. Waive GSB-3.) ....	84
Professional Business Core .....	42
GSB 211a, GSB 110 .....	(7)
Accounting 251-12 .....	12
Economics 214, 215 .....	6
Finance 320, 371 .....	9
Management 340, 481 .....	8
Marketing 225, 325 .....	7
Requirements for Concentration in Secretarial Studies .....	61
GSB 102-8, 211, GSD 110 .....	(19)
English 300 .....	4
Management 271, 385 .....	8
Secretarial and Business Education 201-9, 221-12, 241, 304, 324-8, 326, 341, 426, 427 .....	49
Electives .....	5
Total .....	192

Sociology

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (See Chapter 3. Waive GSB-3.) ....	84
Requirements for Concentration in Sociology .....	38
GSB 201-8 (4 hours count toward the concentration) .....	(8)
Sociology 301, 302, 308, 312 .....	15
Sociology electives in courses whose second digit is not 8, to complete 42 hours .....	23
Secondary Concentration .....	24
Electives Courses in College of Liberal Arts & Sciences .....	46
Total .....	192

Social Work

General Studies Requirements (See Chapter 3. Waive GSB-3.) ....	84
Requirements for Concentration in Sociology .....	43
GSB 201-8 (4 hours count toward the concentration) .....	(8)
Government (2 courses) .....	5
Sociology 301, 302, 308, 312, 375, 383, 481, 482 .....	30
Sociology electives to complete 42 hours .....	8
Secondary Concentration .....	24
Elective Courses in College of Liberal Arts & Sciences .....	41
Total .....	192

Secondary Concentration

A secondary concentration in sociology consists of a minimum of 24 hours.

Special Education

Each area of concentration in special education leads to certification for teachers of a specific kind of exceptional child.

Students who are concentrating in other areas of education may qualify for the above mentioned special certificate for teachers of exceptional children by taking variable hours of additional course work in a specific area of exceptionality. Usually this course work can be taken in place of regular electives, and can be obtained in the junior and senior years. This permits a student, by time of graduation, to qualify for both his regular teaching certificate and the special certificate.

Bachelor of Science Degree, COLLEGE OF EDUCATION

Students may pursue a concentration in special education with program emphasis in any of three areas of specialization: the emotionally disturbed (maladjusted), the educable mentally retarded, and the deaf and hard-of-hearing (acoustically handicapped).

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.)	84
<i>Requirements of a Concentration in Special Education</i>	39
GSB 101, 201, 300b,c	(22)
GSC 100, 101, 102, and 103	(9) + 3
GSC 201, 202, 203, 209, 210 (any two)	(7)
GSC 317, 345 or 365	6
GSD 101, 102, 103, Math	(9) + 9
Art 300 or Technical and Industrial Education 303	4
Government 300 or GSB 211b	4
Mathematics 310	4
Music 300b or 306	3
Physical Education for Women 319	4
Two elective hours of Physical Education Activity	2
<i>Elementary Education</i>	31-36
GSB 331 or Educational Administration 355	3-4
Elementary Education 314, 337, and 351b	20-24
Guidance and Educational Psychology 412	4
Psychology 301	4
<i>One area of Specialization</i>	44-56
EDUCATION OF MALADJUSTED CHILDREN	52-56
Special Education 410a, 411, 413a, 414, 420	20
Psychology 305, 307, 431, 465	16
Sociology 427	4
Elementary Education 351b, 437	12-16
EDUCATION OF THE MENTALLY RETARDED	44
Special Education 410b, 413b, 414, 429b	16
Speech Pathology and Audiology 428	4
Elementary Education 351b	12
Guidance 422a	4
Electives (300 level or above) may be chosen from the following areas: Guidance and Educational Psychology, Audio-Visual aids, related courses in sociology, psychology, economics, or health education, Rehabilitation, related courses in other areas of Special Education	8



Students in secondary education who wish to qualify for this certification must have the above courses and may need to take additional courses which are required in the elementary education program but which are not required in the secondary program.

EDUCATION OF THE ACOUSTICALLY HANDICAPPED .....	54
Instructional Materials 301 .....	2
Psychology 301, 414 .....	8
Guidance 422a .....	4
Special Education 410d, 414, 415, 420d, 421 .....	20
Speech Pathology and Audiology 200, 405a, 406, 416, 419 .....	20
One hundred twenty additional clock hours of supervised practicum and clinical practice in the areas of Hearing, Speech and Speech-reading are required for an Illinois Certificate—Teacher of the Deaf.	
Total .....	198-215

Speech

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

60 HOUR CONCENTRATION

General Studies Requirements (See Chapter 3. Waive GSB-3 or GSC-3.) .....	84
Requirements for Concentration in Speech .....	54
GSC 200, GSD 103 .....	(6)
Speech 102, 201, 202, 205, 209, 300 or 104, 301, 313, 407a, 407b or 417 or 418, 408 and 16 additional hours .....	54
Electives .....	54
Total .....	192

48 HOUR CONCENTRATION

General Studies Requirements (See Chapter 3. Waive GSB-3 or GSC-3.) .....	84
Requirements for Concentration in Speech .....	42
GSC 200, GSD 103 .....	(6)
Speech 102, 200, 201, 202, 205, 209, 313, 407-4 .....	26
Speech electives .....	16
Secondary Concentration .....	24
Electives .....	42
Total .....	192

Interpretation

General Studies Requirements (See Chapter 3. Waive GSB-3 or GSC-3.) .....	84
Requirements for Concentration in Speech (Communications) .....	59
GSC 200, GSD 103 .....	(6)
English: A course of study of 16 hours of English will be worked out on an individual basis. ....	16
Speech 102 or 313, 104, 202, 209, 309, 323, 301, 408, 434, and	

any two of 422, 423, 424, (4 hours elective) .....	43
<i>Electives</i> .....	49
<i>Total</i> .....	192

If a teaching certificate is desired the following changes are necessary:

1. The 10 hours of electives allowed in this course of study should be taken in Interpretation.
2. The secondary concentration should be the regular English secondary concentration.

*Bachelor of Science Degree, COLLEGE OF EDUCATION OR  
Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3 or GSC-3.) .....	84
<i>Requirements for a Concentration in Speech</i> .....	48
GSC 200, 203 .....	(6)
GSD 103 .....	(3)
Radio-TV 367 .....	3
Speech 102, 104 or 200, 202, 205, 209-1, 323, 427 .....	23
Speech Pathology and Audiology 428 .....	4
Theater 111-3, 208-1, 402a .....	8
Electives in speech and/or theater .....	10
<i>Professional Education Requirements</i> .....	32
Guidance 305 or Psychology 303 .....	4
Education: two courses <sup>1</sup> .....	8
Secondary Education 310, 352 .....	16
Speech 406 .....	4
<i>Secondary Concentration</i> .....	24
One secondary concentration is required in a separate area with a sufficient number of hours to meet the teaching requirements for that area. A secondary concentration in English or social sciences is recommended.	
<i>Electives</i> .....	4
<i>Total</i> .....	192

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3 or GSC-3.) .....	84
<i>Requirements for Concentration in Speech</i> .....	42
GSC 200 .....	(3)
GSD 103 .....	(3)
Speech 102, 202, 304 .....	10
Speech electives to complete 48 hours .....	32
<i>Secondary Concentration</i> .....	24
<i>Electives</i> .....	42
<i>Total</i> .....	192

*Secondary Concentration*

A 30-hour secondary concentration in speech should be planned in con-

<sup>1</sup> The Education courses referred to above are Educational Administration 355, Guidance 422, Instructional Materials 417, Secondary Education 407, 440.

sultation with the chairman of the department or the director of speech education. Students electing speech as a secondary concentration to a teaching concentration must include Speech 406.

Speech Pathology and Audiology

Speech pathology and audiology is an area which has as its objective the training of qualified personnel to work with people impaired in either speech or hearing. Positions in this field are available in the public schools, colleges, and universities, and in highly specialized public or private clinics. Experience is obtained through work at the University's Speech and Hearing Clinic, which is one of the participating agencies in the Cooperative Clinical Services. Additional practical experience is available at the University School; a six-week summer camping program in cooperation with the Division of Services for Crippled Children and the Easter Seal Society; the Marion V.A. Hospital, A. L. Bowen Children's Center, and the Anna State Hospital; rehabilitation work sponsored by the Division of Vocational Rehabilitation. Programs of study are designed to meet the academic requirements for the Certificate of Clinical Competence of the American Speech and Hearing Association. Certification requires a master's degree or its equivalent, and students are encouraged to attain this level.

A student in the School of Communications who plans to be a public school speech therapist in Illinois must meet the following required courses to obtain a Limited State Special Certificate.

- 1. GSB 201c and Psychology 301; Elementary Education 314, 337; GSB 331; Guidance 422a; GSD 103 with a minimum grade of C; GSB 201b or 211b; Government 300; English 391 or proficiency examination. In addition, the following courses should be taken during the student's professional quarter, when he does his student teaching: GSB 331 or Elementary Education 355 or Instructional Materials 417; Elementary Education 351b (Student teaching, 8 hours).
- 2. Additional courses required for certification are Guidance 412 or 305 or Health Education 312 and Special Education 200 or 414.
- 3. Thirty to 38 hours of speech pathology.
- 4. Twelve hours in the field of hearing. (416, 406, 419)
- 5. Two hundred clock hours (275 ASHA) of supervised case work in a teacher-training center. (The requirement is satisfied by Elementary Education 351b and/or Speech Pathology and Audiology 405).

The above items 2, 3, 4, 5 are pertinent for those not wishing to be public school speech therapists.

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

The following applies toward certification requirement of the American Speech and Hearing Association.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3 or GSB-3.)		84
<i>Requirements for Concentration in Speech Pathology and Audiology</i>		64
GSB 201c	(4)	
Psychology 301		4
Guidance 412 or 305 or Health Education 312		4
Guidance 422a		4
Speech Pathology and Audiology 200, 203 or 409, 212, 318, 319,		



405-12, 406, 412 or 415, 414, 416, 419 .....	52
<i>Electives</i> .....	44
<i>Total</i> .....	192

The following meets requirements for a state teaching certificate in addition to a concentration in Speech Pathology and Audiology.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3 or GSB-3.) .....	84
<i>Requirements for Concentration in Speech Pathology and Audiology</i> .....	89-95
(Courses listed above.) .....	64
GSB 331 .....	3
Elementary Education 314, 337, 351b .....	20-24
Special Education 200 or 414 .....	2-4
<i>Electives</i> .....	13-19
<i>Total</i> .....	192

#### *Bachelor of Science Degree, COLLEGE OF EDUCATION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3 or GSB-3.) .....	84
<i>Requirements for Concentration in Speech Pathology and Audiology</i> .....	97-103
GSB 201b or 211b or 300a or Government 300 .....	5
Other requirements listed above .....	89-95
Educational Administration 100 .....	3
<i>Electives</i> .....	5-11
<i>Total</i> .....	192

Other requirements for the degree are given under the College of Education on pages 21-22.

### **Student Teaching**

Supervised student teaching is conducted in cooperating public schools in Southern Illinois and the Chicago City Schools. The College of Education requires 12 to 16 hours of student teaching for the Bachelor of Science degree. Students are expected to enroll for the entire 12 to 16 hours during one quarter.

One of the following professional-quarter plans of student teaching must be pursued by the student with the approval of the Chairman of Student Teaching.

The student teacher, under either plan, must follow the same daily schedule as the supervisor. This means that the student teacher is to remain in school for an entire day.

#### *Elementary Professional Quarter*

The student-teaching quarter is devoted to full-time student teaching in an approved off-campus center. The student teacher earns 16 hours of credit and is expected to participate in the teaching program for the entire school day, following exactly the schedule of the cooperating teacher.

The University supervisor calls a meeting of student teachers planning to do elementary student teaching at least one quarter in advance of the

student teaching quarter. The purpose of this meeting is to complete plans and answer questions pertaining to the professional quarter.

Elementary Education 351 (student teaching) grants 16 hours of credit.

#### *Early-Childhood Education Professional Quarter*

The early-childhood education professional quarter is essentially the same as the one described for elementary student teachers with this exception: student teachers in this area teach full time for a quarter in either kindergarten or one of the primary grades. Students must indicate their preference at the time of filing the final application for student teaching.

Elementary Education 350 (student teaching) grants 16 hours of credit.

#### *Secondary Professional Quarter*

(EXCEPT VOCATIONAL AGRICULTURE AND VOCATIONAL HOME ECONOMICS)

*Twelve Quarter-Hour Plan.* This professional-quarter plan is designed for secondary student teachers in the College of Education and for other student teachers desiring to earn additional hours during any one quarter.

Secondary Education 352 (student teaching) grants 12 hours of credit. Additional hours may be earned by registering for courses taught on campus during the evening or on Saturday.

*Sixteen Quarter-Hour Plan.* This professional-quarter plan is designed for secondary student teachers in the College of Education and for other student teachers desiring the maximum amount of student teaching offered by Southern Illinois University during any one quarter.

Secondary Education 352 (student teaching) grants 16 hours of credit. This program *does not* permit additional hours to be earned without the approval of the professional quarter committee.

#### *Vocational Agriculture Professional Quarter*

A 3.25 grade-point average is required before one may take student teaching.

Psychology and education courses required include Guidance 305 and Secondary Education 310. Agricultural Education courses required include Agricultural Industries 210 and 311.

For the professional quarter the student registers for Agricultural Industries 309, 312a and b.

Seniors preparing to be teachers of vocational agriculture do their student teaching in a professional quarter. The first four weeks of the quarter are devoted to an intensive study of methods. The last eight weeks of the quarter are given to supervised teaching in an approved off-campus center. Student teaching is done either fall or winter quarters.

The two weeks summer practice is taken the week prior to and the first week of school at the center where they plan to student teach. Altogether the student has ten weeks of practice experience.

The student is responsible for transportation to and from the center and also housing. It is recommended but not mandatory that the student teacher reside in the community while teaching. He is expected to remain on duty as long as the supervising teacher requires. He makes necessary visits after school hours to the homes of students to observe supervised farming programs. This may be true also for Saturday mornings. The



student teacher is expected to attend all evening meetings such as the FFA, PTA, and adult farmer classes.

#### *Vocational Home Economics Professional Quarter*

A professional-quarter student preparing to teach home economics should register for Secondary Education 352-12, Home Economics Education 310, 311.

For three-fourths of the quarter (approximately 9 weeks), the student does full-time student teaching in an approved off-campus center. During the first week of the quarter, the student reports for prestudent-teaching day and to the Department of Home Economics Education for intensive work in the courses listed above. Likewise, at the end of the off-campus student-teaching period the student reports for the remainder of the quarter including the examination period to the Department of Home Economics Education for further intensive work in the evaluation of student teaching.

In the off-campus student-teaching centers, students are assisted in locating housing by the university supervisors of home economics education and the local public school teacher. Students who live in University Housing should indicate to the coordinator of housing the time when they will be off-campus for student teaching and/or Home Management House residence so that adjustments in contracts can be made. Students living in housing other than university housing should make arrangements directly with those involved.

The Department of Home Economics Education calls a meeting of students planning to do student teaching at least one quarter in advance of the student teaching period to plan for the professional quarter.

#### *The Professional Quarter Committee*

A representative from the College of Education, College of Liberal Arts and Sciences, School of Agriculture, School of Business, School of Communications, School of Fine Arts, School of Home Economics, and School of Technology serve on the professional quarter committee. The purposes of this committee are as follows:

1. To recommend to the Chairman of Student Teaching regulations and procedures applying to all student teachers working on the professional quarter plan.
2. To review petitions for special student teaching consideration where a student feels that he is an exception to the rules and regulations pertaining to the professional quarter. In most cases final reviewing is made from a written request form known as the *Petition for Special Student Teaching Consideration*. However, the committee as a whole feels that students should not be denied an opportunity of presenting their own cases in person to the committee.
3. To afford each college or school that is concerned with student teaching a personal representative.

No student may pursue a student teaching assignment other than one described previously under one of several professional-quarter plans, unless approved by the professional quarter committee. To request such approval, the student must complete the forms known as the *Petition for Special Student Teaching Consideration*. These forms may be secured from the office of the chairman of Student Teaching, Room 135, Wham Education Building. Petitions will be accepted for review by the profes-



sional quarter committee no later than the end of the second week of the quarter preceding the student teaching quarter. However, petitions may be filed as early as the filing of the final application for student teaching.

Since student teaching is designed in terms of the needs of beginning teachers for complete and integrated experience, and since more than one supervisor may be in charge of the work done by the student teacher, no part of the work may be dropped by the student teacher with the expectation of continuing the remainder of the work for credit. Furthermore, if one supervisor finds it necessary to drop a student teacher from a part of the program, the College of Education reserves the right to require such student teacher to drop all of his program of assigned student teaching rather than merely a part of it.

Two applications are necessary for student teaching. The preliminary or first application must be made during the first six weeks of the winter quarter, approximately one year prior to graduation. Announcements will appear in the *Egyptian*; major departments will be notified. Students are scheduled for either fall, winter, or spring quarter of the following year on the basis of information given on the preliminary application. A final, detailed, application blank must be filed prior to the quarter the student is scheduled for student teaching. A student scheduled to do student teaching during the fall or winter quarter should file his final application during the first two weeks of the preceding spring quarter. A student scheduled for student teaching during the spring quarter should file his final application during the first two weeks of the preceding fall quarter.

Application for student teaching by in-service teachers for the summer sessions should be made not later than January 1. Application blanks may be secured from the office of the chairman of Student Teaching.

#### *Student Teaching Prerequisites*

1. Preliminary application should be made to the chairman of Student Teaching during the winter quarter of the academic year prior to graduation.

2. A final, detailed application form must be completed two quarters prior to the student teaching assignment.

3. The student must have 128 hours of credit with a 3.25 grade point average before beginning work in student teaching.

4. The student is responsible for having transcripts of credit earned at colleges or universities other than Southern Illinois University on file in the office of the chairman of Student Teaching.

5. The student in secondary education must have at least 16 hours of credit in each subject which he proposes to teach. The areas of concentration are listed under Secondary Education elsewhere in the catalog.

6. Each student must have at least 12 hours in professional education courses prior to doing student teaching. One preparing to teach in junior or senior high school must have had educational or adolescent psychology, high school methods, or a special methods course in his public school teaching subject area. One preparing to teach in the elementary school must have had educational or child psychology, reading methods, and elementary methods. An early-childhood education concentration must have had educational or child psychology, reading methods, and kindergarten-primary methods. He must also be approved in class piano and must have had typewriting and duplicating courses or passed a proficiency exam in both.

7. The student must have established at least one quarter of residence credit at Southern Illinois University, earning a minimum of 16 hours of credit, prior to any student teaching assignment.

8. Students must have academic training in a public school teaching area which meets the approval of the respective departmental chairman.

9. Student teachers must have a clearance from Health Service, after taking a tuberculin test.

10. Admittance to the student teaching program will be made with respect to the above mentioned prerequisites at the close of the second quarter preceding the student teaching term.

### Technical and Industrial Education

Technical and industrial education is an instructional activity concerned with the roles, interactions, and relationships in a variety of industrial and technological areas. The programs are designed to prepare persons for teaching or providing leadership in one of the industrial or technical education fields. The technical and industrial education programs at Southern Illinois University acquaint students with the role of industry and technology in the programs of industry, schools, and other institutions.

Industrial arts teaching encompasses a broad area of study concerned with the provision of experience with and knowledge of machines, tools, materials, and processes used in industry. It includes such things as communications, transportation, manufacturing and construction. Persons following this program are prepared to teach industrial arts subjects in the elementary, junior and senior high schools.

The trades and industries program provides specialized instruction in technical-industrial occupations such as automotive, drafting, machine-tool, and electronics offered in senior high schools, trade schools and other vocational training programs.

The manual arts therapist uses medically-prescribed programs of activity, involving industrial materials and tools, in physical and mental rehabilitation of patients in hospitals, sheltered workshops and rehabilitation centers.

Technical teaching is a program which prepares persons for teaching in areas of technical education in the junior colleges and technical institutes. It involves instructing youth and adults in highly skilled occupations requiring knowledge of such areas as science, mathematics, mechanical design, electronics, or power.

Educational specialists are prepared to work with all levels of school youth and adult programs relating to industry. Those who gain experience and continue graduate work receive special instruction at college and university levels to prepare for professional teaching occupations. Students who have undergraduate backgrounds in engineering technology or the equivalent may pursue a master's degree in technical education.

### *Bachelor of Science Degree, SCHOOL OF TECHNOLOGY*

<i>General Studies Requirements</i> (See Chapter 3.)	90
<i>Requirements for Concentration in Technical and Industrial Education</i>	108
GSA 358-6	(6)



Guidance 305 .....	4
Mathematics 111-10 .....	(9) + 1
Secondary Education 310, 352-12 or 16 or Technical and Industrial Education 435-12 <sup>1</sup> or 425 .....	20
Technology 100, 101-6, 300c .....	11
Technical and Industrial Education 408, 491 .....	6
Optional Groupings .....	66
<i>Industrial Arts Teaching</i> : 380-9, Industrial Technology 300a, 306a, 309a, 312a, 320a, 327a, 343a, elective teaching areas-34	
<i>Trades and Industries Teaching</i> : 319-12 to 24, 494, 495, 496, Technology 259 or concentration specialty-45	
<i>Technical Teaching</i> : Technology 319, Engineering 222, concentration specialty-40, related area-20	
<i>Manual Arts Therapy</i> : Industrial Technology 300a, 306a, 309a, 312a, 320a, 322a, 327a, 343a, Psychology 305, 307, 465, Health Education 334s, Physiology 300, 455, electives-19.	
<b>Total</b> .....	198

Theater

Instruction and training in all phases of dramatic production for the stage and in basic techniques for dramatic production in television, radio, and motion pictures are provided.

Education for dramatic production entails (1) training and practice in acting, directing, and technical production (stage management, crew work, the planning and execution of costumes, lighting, and scenery); (2) understanding of the essential nature of theater art through study of theater esthetics, history, and criticism; (3) a survey of theater management practices; and (4) a knowledge of dramatic literature.

The courses are designed to achieve the following objectives: (1) to teach the theory and practice of play production; (2) to provide a foundation for graduate study, in dramatic production, theory, and history; (3) to provide basic professional training in all phases of dramatic production for stage, screen, radio, and television; (4) to provide the general college student with opportunities to participate on an extracurricular basis in a cooperative artistic enterprise, and with courses which will contribute to a broad liberal arts education; (5) to provide the student of general speech with training and experience in an important type of speech activity; (6) to provide campus, city, and area with live theater performances of the best plays, including children's plays and operas, of past and present; and (7) to permit students some degree of specialization in any one of five areas of dramatic production: acting and directing; scenic and costume design; playwriting and dramatic literature; theater history, theory, and esthetics; and children's theater and creative dramatics.

The Southern Players, under the supervision of the theater faculty, produce each school year five three-act plays, three plays for children, programs of original one-acts. Each fall the Touring Theater, a troupe

<sup>1</sup> Required only for concentration in manual arts therapy.



composed of students registered in 322 tours Southern Illinois for several weeks, performing daily a three-act play and a play for children. Each summer a resident stock company produces a five-production playbill in the air-conditioned University Theater.

*Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in Theater</i> . . . . .	89
GSC 110-9, 200, 201, 203, 305, 340, 348, 354, 365 .. (12) +	24
English 460-8 . . . . .	8
Theater 111-6, 203, 204, 207, 305, 311, 322-12, 402a, 414, 432, and other courses chosen according to the students desire to specialize in one of the five following areas: directing and act- ing; scenic and costume design; playwriting and dramatic literature; theater history and theory; Children's Theater and creative dramatics . . . . .	48
Theater electives . . . . .	9
<i>Electives</i> . . . . .	19
<i>Total</i> . . . . .	192

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>Requirements for Concentration in Theater</i> . . . . .	78
GSC 201, 203, 354-6 . . . . . (4) +	9
English 460-8, 471-4 . . . . .	12
Theater 111a,b, or c, 204, 208-3, 308-3, 311, 314, 402a, 403, 438 . . . . .	33
Theater electives . . . . .	24

*Secondary Concentration*

The required courses are 111-6, 204, 207, 305, 311, 402a, for students in the School of Communications; GSC 203, Theater 111a,b, or c, 204, 208, or 308, 354-6, 402a, 438, for students in the College of Liberal Arts and Sciences.

**Zoology**

Students planning to concentrate in zoology should consult with the zoology faculty representatives.

A concentration in zoology is appropriate for those wishing to enter the following fields: fish and wildlife management, dentistry, medicine, veterinary medicine, or allied fields. These students should consult with the zoology adviser concerning their course of study.

*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . . .	84
<i>Requirements for Concentration in Zoology</i> . . . . .	60
GSA 201-8 (4 hours count toward the 48-hour concentra- tion) . . . . .	(8)
GSD FL (Recommended French, German, or Russian) ..	(9)
Mathematics 111-10 . . . . .	10
Chemistry 111b,c . . . . . (4) +	6
Zoology 102, 103, 202, 300, 310, 382-1, 401 . . . . .	31

Zoology electives to complete 48 hours, which may include GSA 312, 313, 315 .....		13
Electives .....		48
Recommended: three additional quarters of the foreign language elected, three quarters of botany, two of physics, one of physiology, one of microbiology, and organic chemistry		
Total .....		192

One who desires a concentration in zoology is expected to register consecutively in Zoology 102, 103, 202, and 300.

Secondary Concentration

A secondary concentration in zoology consists of at least 24 hours, including GSA 201-8 (which contributes only 4 hours); Zoology 102, 103; and at least one laboratory course numbered above 199. GSA 312, 313, 314, 315 may be counted toward the 24-hour minimum.





# 6 / Degrees

SOUTHERN ILLINOIS UNIVERSITY grants the following undergraduate degrees.

Bachelor of Arts	Associate in Art
Bachelor of Science	Associate in Business
Bachelor of Music	Associate in Technology
Bachelor of Music Education	

## Graduation

Every degree candidate *should* signify his intention to graduate by making application for graduation no later than the first week of his last quarter in attendance before the desired graduation date. Therefore, a person desiring to graduate in the June commencement who will be in school during the spring quarter should make application for graduation during the first week of the spring quarter. If he finishes his work during the preceding winter quarter, he should apply during the first week of the winter quarter. Similar arrangements should be followed by students completing their work during the fall quarter. The application forms are available in the Registrar's Office.

Every candidate for a degree *must* file written application with the Registrar's office not less than five weeks before the date on which the degree is to be granted. At the time of application the student must pay his graduation fee and order his cap and gown through the University Bookstore and should register with the Placement Service. A student must have a 3.00 grade point average before his application for a degree may be accepted.

In addition to the satisfying of all necessary academic requirements each candidate for a degree must make certain that he has no outstanding financial obligation with the University. Otherwise, his graduation clearance will be held up.

Students must attend Commencement exercises to receive their diplomas, unless in advance they obtain permission to be graduated *in absentia*.

## Associate Degrees

Each candidate for an associate degree must complete a minimum of 96 hours of credit in approved courses. Each student must maintain a C average. The degree granting unit for the associate degree is the Division of Technical and Adult Education. For information concerning this degree, refer to the Division of Technical and Adult Education bulletin.

## Bachelor's Degrees

Every bachelor's degree candidate must meet the University's requirements and the requirements of his academic unit.

Each candidate for the degree must complete a minimum of 192 hours of credit in approved courses. At least 64 must be in senior (i.e., 300 or 400) college courses. Each student must have a *C* average, and grades not lower than *C* in subjects aggregating at least three-fourths of the work. A *C* average is required in the area of concentration.<sup>1</sup> These averages are required for credit made at this University as well as for the total record. To receive a bachelor's degree from Southern Illinois University a student must present either a total of three years work (144 hours) earned at Southern Illinois University or by completing the last year in residence. The last year shall be considered as 48 quarter hours of which not fewer than 36 shall be of senior college level. Twelve of the 48 may be earned in extension at Southern Illinois University.

A student who received his first bachelor's degree from Southern Illinois University and who desires a second bachelor's degree must complete 45 hours in addition to those required for the first degree and must fulfill the requirements for the second degree. Of these 45 hours, a minimum of 15 must be taken in residence at the University, and a maximum of 15 may be acquired in extension and/or correspondence courses. At least 30 hours must be in senior college courses. If a student received his first bachelor's degree from another university, 48 hours are required to fulfill the residence requirement for the second bachelor's degree, two-thirds of which must be in senior college courses.

The state of Illinois requires that American patriotism and the principles of representative government, as enunciated in the American Declaration of Independence, the Constitution of the United States of America, and the Constitution of the State of Illinois, and the proper use and display of the American flag shall be taught in all public schools and other educational institutions which are maintained in whole or in part by public funds, and that no student shall receive a certificate of graduation without passing a satisfactory examination upon such subjects. Government 231, 300, History 330, GSB 203a, and 300a offer such instruction.

Students preparing to teach must satisfy the certification requirements of the state in which they plan to teach. Illinois requirements are described on pages 49–50, and 83–84 of this catalog. Most students who plan to teach in the public schools register in the College of Education.

### *University Convocations Requirement*

All students entering the University as beginning freshmen must satisfactorily complete three quarters of University Convocation during their first year, or in any case prior to graduation. Exceptions are (1) students who transfer from other institutions and re-entering students who started collegiate work in the Vocational-Technical Institute, (2) students who are more than twenty-five years of age at the time of first registration at Southern Illinois University, (3) students who carry fewer than 12 hours each quarter during their first eight quarters, and (4) students enrolled in the Vocational-Technical Institute.

### *Preprofessional Programs*

Preprofessional students may, subject to certain conditions, obtain a bachelor's degree after three years' work (144 quarter hours) at Southern Illinois University and one or more years' work in a professional school.

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<sup>1</sup> The areas of concentration are described in chapter 5.



During their three years of residence at Southern Illinois University they need to have completed all requirements other than elective hours for the bachelor's degree which they are seeking.

In some cases the completion of concentration requirements is possible by their taking certain courses at the professional school, but this is permitted only upon the prior approval of the appropriate divisional head. Also, there needs to be completion of at least one year of professional work with acceptable grades in a Class A medical school, a Class A dental school, a Class A veterinary school, an approved law school, an accredited medical technology school or hospital plan approved by the University. In all cases, all University graduation requirements must be met. It is advisable for a student interested in this program to make his decision to seek a bachelor's degree before entering the professional school so that any questions may be clarified at an early date. Preprofessional training is offered in the areas of medical technology, medicine, dentistry, and veterinary science.

Students working toward the Bachelor of Science degree in agriculture may attend the Edwardsville Campus their freshman year and transfer to the Carbondale Campus for the completion of the degree. In preparing for one of the agriculture professions, the student should follow closely the appropriate course of study as suggested in this catalog.

Students working toward a Bachelor of Science degree in home economics may attend the Edwardsville Campus their freshman and sophomore years and transfer to the Carbondale Campus for the completion of the degree. In preparing for this degree, the student should follow closely the appropriate course of study in this catalog.

### **Advanced Degrees**

For information concerning master's degrees or the Doctor of Philosophy degree, refer to the Graduate School Catalog or direct inquiries to the dean, Graduate School, Southern Illinois University, Carbondale, Illinois 62901.





# 7 / Student and Area Services

SOUTHERN ILLINOIS UNIVERSITY recognizes the importance of providing students every opportunity to benefit in the fullest manner from their college experiences. The University is one of the first in the nation to pioneer in relating administratively the operations of student services and area services. A goal is to assist students in their participating in the activities of the regions served—including international areas. At the same time the University hopes to assist residents of the community, region, and state to understand better the purposes of the University and the contributions of young men and women.

## Student Services

The University is concerned with an integrated approach to student needs and problems in intellectual, social, spiritual, and physical areas. Students may learn about and be referred to specialized services throughout the University by publications describing the services and by the personnel in units which are concerned with students.

Those functions of Student and Area Services relating directly to students include the student services administered by the Dean of Students (e.g., student housing, counseling, testing, and student activities), the University Placement Services, the University Health Services, the Student Work and Financial Assistance Program, the International Student Services of the International Services Division, the University Information Services, the University Broadcasting Services, the University Alumni Services, the Community Development Services, and the Public Administration and Metropolitan Affairs program.

### *Office of the Dean of Students*

The Dean of Students on each campus coordinates the student services offered by the units within the Student Affairs Division. The deans and their staffs work closely with other University offices, with students, and with faculty in planning and implementing an integrated program of activities and services. The Office of the Dean of Students provides information about the University and its services, and lends assistance to students who request it.

### *Counseling and Testing*

The Counseling and Testing Center is staffed with professional counselors who are qualified to discuss freely any problem or plan—academic, personal, or vocational—that may concern the student. Counseling is designed to aid the student in arriving at a realistic solution to his problem by providing a permissive setting in which he may freely verbalize his thoughts and feelings and, in turn, gain insights for greater understanding. The counselor may use tests as an aid in helping the student evaluate his strengths and limitations. These may include measures of interest, aptitude, personality, and achievement.

Most of the students who seek help from the Counseling and Testing Center refer themselves. However, referrals are received from the faculty and from agencies throughout the University. Students may make appointments by telephone. Services are free.

The American College Testing Program is administered on both the Carbondale and Edwardsville Campuses. In addition to the extensive individual testing conducted in conjunction with counseling, the Counseling and Testing Center administers testing programs for selection, placement, and research purposes.

An on-going program of research is carried out by the staff of the Counseling and Testing Center in student attitudes, aptitude, achievement, and background; the college environment; and other areas related to the total educational process. Staff members serve as consultants to other faculty members in educational and institutional research.

### *Student Housing*

Because of the relationship between the student's living environment and his progress towards attainment of his educational goals, Southern Illinois University provides and continually improves on-campus housing for its students and seeks continually to influence both the availability and quality of off-campus housing.

#### BASIC STUDENT HOUSING POLICY

Because of concern for and interest in the housing of students, the Board of Trustees of Southern Illinois University established, in 1963, basic policy on student housing. At its meeting in April, 1965, the Board of Trustees amended its 1963 policy and passed a resolution which established the current basic policy on student housing as follows.

Single undergraduate students not residing with their parents or guardians will be permitted to reside only in those accommodations which have been and which continue to be classified by the Administration as Accepted Living Centers. Any single undergraduate student who resides in accommodations not designated as an Accepted Living Center shall be subject to disciplinary action. The Administration vigorously encourages that all accommodations used by graduate students and married undergraduates meet the same minimal standards.

The qualifications necessary for a living unit to be classified as an Accepted Living Center encompass due consideration for safety, sanitation, health and recreation, supervision, and the creation of an environment conducive to good study conditions. In addition, the living unit must be limited to students of Southern Illinois University and available to all students of the University regardless of race, color, religion, or national origin.

The Administration reviews annually the Housing Policies and Standards and makes appropriate recommendations to the Board of Trustees for upgrading living conditions for students.

#### UNIVERSITY HOUSING, CARBONDALE CAMPUS

Applications for University housing for students for any academic year may be filed after September 1 of the preceding year. Assignments of space and contracts for housing may be made on the basis of the date of original application for housing if the student has been admitted to the University.



Present nine-month rates for University housing for single students (room and board) is \$876. Family rates are dependent on the type of facility available.

The rates charged by the University for the various housing units are established on the basis of current costs, and every effort is made to keep rates at the lowest possible level. All rates for University housing are subject to change from time to time depending upon the prevailing cost structure and approval by the Board of Trustees.

#### UNIVERSITY HOUSING, EDWARDSVILLE CAMPUS

The Edwardsville Campus is designed for commuters, and approximately 85–90 percent of the students reside at home while attending the University. At the present time, there are no residence halls on the Edwardsville Campus.

#### OFF-CAMPUS HOUSING

In order for living accommodations to be classified as Accepted Living Centers, facilities must meet certain safety, sanitation, health, recreation, and supervisory standards. The creation of an environment which is conducive to good study conditions is always of primary consideration.

Owners of off-campus housing facilities use the University's contract form for student rental housing. Each student contract has to be signed by the owner or his legal representative, by the student renter, and by an appropriate staff member of the office of the Assistant Dean for Off-Campus Housing.

Staff members are available to advise students who seek off-campus accommodations. Experience has indicated that attempting to obtain off-campus facilities by mail is generally unsatisfactory. Therefore, prospective students are urged to visit the campus and personally seek desirable living accommodations.

Detailed information concerning housing may be found in "Student Housing Policies and Standards," which may be obtained at the Office of the Dean of Students.

#### *Student Activities*

The staff members of the Student Activities Office are available to all campus groups and individuals in planning, conducting, and evaluating activities and programs.

Besides honorary organizations which stimulate and recognize academic achievements, other groups and organizations exist to meet the educational, religious, social, recreational, political, and other special interests of the student.

Through the use of the Student Activities funds, certain all-campus groups are able to initiate and plan a wide variety of programs for the entire campus community.

Through the establishment and recognition of such organizations and programs at Southern Illinois University, students are able to become involved with the academic community. Participation in any group or organization is open to all students.

#### *Student Guidebook*

Specific information and current policies concerning housing, motor vehicle regulation, student activities, student code, and general matters

are found in the *Student Guidebook*, which is distributed to new students upon admission to the University. All students should be cognizant of University requirements and regulations and may obtain copies of the *Student Guidebook* from Central Publications or from the Office of the Dean of Students.

### *Office of Student Work and Financial Assistance*

Southern Illinois University has an excellent program whereby a student may combine student work with financial assistance to defray a large part of his educational expenses. Student job diversity extends from unskilled entry jobs to those jobs requiring college training. Employment opportunities for students exist in every unit of the University.

The Student Work Program provides part-time employment and work experience which relates, if possible, to the student's academic programs. The kind of training and length of the program are determined by the employing unit in cooperation with the Office of Student Work and Financial Assistance.

Undergraduates employed on campus are paid from \$1.00 to \$1.75 per hour, based upon off-campus experience and the number of years of satisfactory service to the University. Graduate students receive \$1.15 to \$2.00 per hour.

Undergraduates must be enrolled in at least 12 hours to qualify for part-time student work on campus during any quarter except the summer quarter, when students may work and be enrolled in a reduced number of class hours.

In addition to student work, scholarships, grants, loans, and other aids are available to assist academically capable, financially needy students. As a part of the award program, the Board of Trustees has established tuition awards known as Southern Illinois University Scholarship and Activity Awards. To apply for awards, entering freshmen must have ranked in the upper half of their graduating class and have achieved a minimum comprehensive high school average of *C*; enrolled students must have a minimum average of *C* for all college work. For scholarships available to upperclassmen, a minimum average of *C* is required for all college work. For some scholarships, higher averages are required.

The limitations of such forms of assistance make it inadvisable for an undergraduate to expect to meet all University expenses from such sources. The University may assist in making up the difference between college costs and the student's resources through scholarships, awards, and loans.

Students desiring to apply for financial assistance must be officially admitted to the University and should request an application for financial assistance from the Student Work and Financial Assistance Office. In general, students should apply for assistance between January 1 and March 15 prior to the September when assistance is needed.

### *Health Services*

The Health Services Division provides medical services at all the major instructional centers of the University. Its purpose is to render service to the students, faculty, and staff within the limits imposed by the size and professional status of the staff, by legal obligations, and by the available facilities.

A physical examination, preferably performed by the family physician,



is required of all students before attending classes on a full-time basis. A simplified form is furnished the student for this purpose; it should be mailed or brought to the Health Service on completion. From this record, decisions may be made relative to special considerations for physical disabilities, need for individualized physical education courses, and treatment of illnesses while the student is enrolled.

Detailed information about the service provided and the voluntary health insurance program available to students at special rates may be obtained through a brochure available at the Health Service.

### *Placement Services*

The University Placement Services are provided for the benefit of students, graduates, and others who have been attending the University, and who desire to find employment. It also serves employers by helping them locate personnel. Services are free to candidates seeking positions, as well as to employers.

Each student is requested to register with the Placement Service during the fall quarter of his senior year. Credentials are sent to prospective employers at the request of either the candidate or the employer.

As a means of helping students and graduates obtain permanent employment, a library of employer information is maintained. Company representatives visit the campuses throughout the year, and interviews are scheduled for students who have registered with Placement Services.

### *International Student Services*

The office of International Student Services attends to the special needs of the student from abroad. Staff members with special qualifications have primary responsibility for assisting the student in matters of adjustment to the University and with matters of immigration, passport problems, contacts with sponsors (foundations, agencies, governments), and financial and personal problems. A special effort is made to integrate the students from abroad into the University and area life and, reciprocally, to help them become a living resource for American students to expand their horizons and interests.

### *Cooperative Clinical Services*

The Cooperative Clinical Services Center is a coordinated center of services (on the Carbondale Campus only) open to students as well as children, adolescents, and adults. Persons may report directly to the center or write the manager for an appointment. Services include psychodiagnostic assessments, speech and hearing evaluations, assistance with reading and study skills, personal counseling, marriage counseling, rehabilitation counseling, vocational counseling, speech and hearing therapy, and physical therapy. Cooperating agencies include Reading Center, Department of Guidance and Educational Psychology, Department of Psychology, Department of Special Education, Department of Speech Pathology and Audiology, Rehabilitation Institute, Department of Sociology, Counseling and Testing Center, and Health Service.

### *Bursar*

The Bursar's Office accepts payment of tuition, fees, and room charges. It also distributes checks for student employment. Limited check cashing services are provided to students. Students are encouraged to establish



checking accounts in local banks of the area to obtain the full services of a regular checking account.

### *Identification Cards and Certificates of Registration*

Each student receives an identification card which bears his photograph and serves to identify him while he is enrolled at Southern Illinois University.

A certificate of registration, issued each quarter, certifies payment of the student activity fee. The identification card is used with the certificate of registration for the current quarter to identify students who have paid the student activity fee and are eligible to use University facilities.

The identification card and the certificate of registration are legal documents. A student who loans, borrows, or alters these cards is subject to disciplinary action; in addition, such action may be considered a criminal offense as well as an infraction of University regulations. It is important to obtain a new certificate of registration each quarter and *to carry both the identification card and the current certificate of registration at all times*. These cards are also used to borrow books from the University Libraries and to gain access to the University Center recreational facilities. They are used in the registration process at Carbondale.

### **Residence Regulations**

Regulations defining the residence of students for purposes of registration in Southern Illinois University are as follows:

1. Evidence showing the residence of every applicant for admission to the University must be submitted to the Registrar at the time of application for admission, and resident or nonresident fees shall be assessed on the basis of evidence appearing in the Registrar's records.

2. In all cases where the records indicate that the student's home is outside the state of Illinois, the nonresident fee shall be assessed. A student who takes exception to the ruling may file a claim for a refund, but this must be submitted to the Registrar within 10 days of the opening date of the quarter for which the charge was made.

3. In the case of a student who is a minor, the residence of the parent, or if the student has no parent, the guardian of this person, shall govern unless there is proven to have been complete emancipation of the minor from his parents or guardian and he has established residence in the state of Illinois.

4. Any student, adult or minor, whose parents have established a bona fide residence in the state of Illinois will be regarded as a resident for registration purposes; except that an adult student who has established a residence on his own account outside of the state must conform to the terms set forth in regulation 6 to be classified as a resident.

5. A wife is classified as a resident for registration purposes if her husband is a bona fide resident of the state of Illinois preceding and at the time of her registration.

6. An adult student, whose parents are deceased or whose parents reside outside the state, to be considered a resident of Illinois for purposes of registration must be a bona fide resident of the state for three months preceding the beginning of any quarter for which he registers at the University and must present evidence that he is self-sustaining and not under parental control.

7. An adult alien who holds valid immigration papers and is in the United States under an immigrant-type visa may qualify as a resident of the state for purposes of registration in the University if he has lived within the state for at least a period of twelve months next preceding the beginning of any quarter for which he registers at the University, subject to the provisions of rules 4 and 6.

8. Several factors will be considered in the determination of each individual case. Among the factors to be considered will be (a) location of draft board registration, (b) voting address, if any, (c) the degree of self-support of the student, (d) location of summer or vacation employment.

9. All cases of appeal shall first be referred to the Legal Counsel of the University. An appeal from the Legal Counsel shall be in accordance with University statutes.

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Note: In the above regulations an adult student is considered to be a male at least 21 years of age or a female at least 18 years of age.





# 8 / Course Descriptions

HERE ARE DESCRIBED all of the courses offered by the University for credit toward a bachelor's, master's or doctor's degree. (Associate degree courses and certificate courses offered by the Vocational-Technical Institute are described in the Division of Technical and Adult Education bulletin.) Courses are listed *numerically* within each subject-matter area. Areas are listed below in the order of their appearance on the following pages.

General Studies Area A	Government
General Studies Area B	Guidance and Educational Psychology
General Studies Area C	Health Education
General Studies Area D	Higher Education
General Studies Area E	History
Accounting	Home and Family
Aerospace Studies	Home Economics
Agricultural Industries	Home Economics Education
Animal Industries	Industrial Technology
Anthropology	Instructional Materials
Applied Science	Journalism
Art	Management
Botany	Marketing
Chemistry	Mathematics
Clothing and Textiles	Microbiology
Design	Music
Economics	Philosophy
Education Administration	Physical Education—Men
Elementary Education	Physical Education—Women
Engineering	Physics
Engineering Technology	Physiology
English	Plan "A"
Finance	Plant Industries
Food and Nutrition	Printing and Photography
Foreign Languages	Psychology
Chinese	Radio-Television
French	Recreation and Outdoor Education
German	Religious Studies
Greek	Secondary Education
Italian	Secretarial and Business Education
Latin	Sociology
Portuguese	Special Education
Russian	Speech
Spanish	Speech Pathology and Audiology
Romance Philology	Technical and Industrial Education
Forestry	Technology
Freshman Convocation	Theater
Freshman Honors Seminar	University Convocation
Geography	Zoology
Geology	

The first entry for each course is a three-digit numeral which, together with the subject area, serves to identify the course. The first digit indicates that the course is for freshmen, sophomores, juniors, seniors, or

graduate students only, depending on whether the digit is 1, 2, 3, 4, or 5, respectively.

Following the identification number are a dash and another number, which indicates the maximum credit allowed for the course. The maximum may be variable, such as Art 393-4 to 12. Some courses do not terminate at the end of one quarter, as evidenced by two or more numerals in parentheses indicating the credit allowed for each quarter of participation in the course, such as GSC 110-9 (3,3,3).

Next is the title, followed by a description of the course. If certain requirements must be satisfied before enrollment in a course, they are listed as prerequisites.

Not all of the courses described here are offered every quarter or even every year. To find out when and where a course is to be offered, consult the Schedule of Classes, which may be obtained from Central Publications, Southern Illinois University, Carbondale, Illinois 62901. When requesting a schedule, please specify *campus* (Carbondale or Edwardsville) and *quarter* (fall, winter, spring, or summer).

### Man's Physical Environment and Biological Inheritance (GSA)

**101-8 (4,4) Introduction to Physical Science.** The aim of this course given jointly by the departments of Chemistry and Physics, is to introduce the student to a few of the basic concepts underlying the contemporary scientific view of nature, such as the understanding of energy properties, and behavior of matter.

**110-8 (4-4) The Earth and Its Environment.** A study of the Earth, its major domains, and its space environment: student investigation of earth substances, processes and utilization of energy. An investigative approach is used for study of the observational and measurement techniques used by the earth scientist. Lecture, laboratory, and individual study.

**201-8 (4,4) Introductory Biology.** Lecture and laboratory on the fundamentals of biological science: the cell and protoplasm, development, inheritance, structure and function of animals and plants, evolution and ecology. Must be taken in a,b, sequence. Prerequisite: GSA first level or Chemistry 110 or 111.

**301-4 Principles of Physiology.** A comprehensive introductory analysis of the functional machinery of the human body.

**302-3 Psychobiological Foundations of Behavior.** A study of the behavioral characteristics of living organisms, especially those of mammals and man.

**303-3 Ferns, Trees, and Wild Flowers: The Pleasure of Recognition.** Field studies of local plants.

**310-3 The Development of Atomic Energy.** A survey of atomic theory from early Greek thought to the present. These ideas are considered in the context of their times rather than as isolated events.

**312-3 Conservation of Natural Resources.** A study of man's use and misuse of natural environment.

**313-3 Evolution.** Principles and processes of the evolution of living things, including man. Prerequisite: one year of biology.

**314-3 Man's Genetic Heritage.** Principles of heredity as related to man, with emphasis on the effects of environment on his biological inheritance.

**315-3 History of Biology.** The inter-relationships between the development of biological knowledge and the history of mankind.

**321-3 Introduction to Paleontology.** A study of the record of fossil plants and animals and the application of biological and geological principles to the development of theories regarding their origin, evolution, distribution, and extinction.

**322-3 Introduction to Rocks and Minerals.** The course is specifically designed to acquaint the nonprofessional with the origin, distribution, character, and value of the common minerals and rocks in the earth's crust.

**330-3 Weather.** A study of weather elements basic to understanding the various atmospheric happenings, with application to agriculture, industry, recreational



resources, etc. Students may take only 330 or 331 for General Studies credit.

**331-3 Climate.** Description and interpretation of climatic regions and their influence on human activity. Students may take only 330 or 331 for General Studies Credit.

**340-3 Ecology.** A consideration of ecological principles with emphasis upon examples relating to vegetation.

**345-3 Economic Botany.** The study of man's dependence upon plants, domestication, production, consumption, crop ecology, possible new uses of plants.

**358-6 (3,3) Analysis of Physical Systems.** Quantitative applications of the principles of classical and modern physics with emphasis on the application of the laws of heat, wave motion, quantum theory, and atomic physics. Prerequisites: GSA first level, Mathematics 111a,b. Not open to students who have taken college or university physics.

**361-3 Physics of Music and Acoustics.** Nature, propagation, sources and receptors of sound; acoustic phenomena; physics of musical instruments; mathematics of music; ears and hearing; physiology and psychology; transmission, storage, and reproduction.

**363-6 (3,3) Philosophy of Science.** (a) The logic of scientific explanation illustrated by analysis of physical concepts and theories. (b) The logic of explanation in the biological and behavioral sciences and their implications for the individual and society. May be taken in a,b or b,a sequences, but a,b is preferable.

### Man's Social Inheritance and Social Responsibilities (GSB)

**101-8 (4,4) Survey of Western Tradition.** (b) A general survey of the political, economic, social, and intellectual development of Western Europe from the Middle Ages through the French Revolution. (c) A general survey of the political, economic, social, and intellectual development of Western Europe since the French Revolution. Must be taken in sequence.

**102-8 (4,4) Man and His World.** Anthropology: the nature of man; his behavior as the only culture-bearing animal. Geography: description of the content and spatial patterns of the contemporary world.

**201-8 (4,4) Behavior and Society.** An examination of the variables related to the acquisition of human behavior and social interaction in human institutions.

**211-8 (4,4) Political Economy.** The functioning of the economy, the theory, organization, and operation of government, and the making of public policy in the economic sphere.

**300-9 (3,3,3) History of the United States.** A general survey of the political, social, and economic development of the United States. (a) 1492 to 1815, (b) 1815 to 1900, (c) 1900 to the present.

**301-3 Law: Comparative Legal Systems.** A comparison of the legal institutions and laws in the United States, Western Europe, South America, and Eastern nations.

**302-3 Law: Civil Rights.** The law protecting the civil liberties and rights of people.

**303-3 International Relations.** A study of world politics. The causes of international conflict and the conditions of peace.

**304-3 Law: History and Philosophy.** A study of the evolution and development of law beginning with the ancient and archaic periods. Greek law, Roman law, and English and American law. In addition, the historical development of legal philosophy is reviewed.

**311-3 Economic Development of the United States.** Emphasizes the underlying trends and forces of change that have led to our present economic structure, level of performance, and world position. Prerequisite: 211-8.

**312-3 Comparative Economic Systems.** A comparative study of the goals, structure, and operation of the major economic systems, such as capitalism, socialism, communism, and fascism. Emphasis upon basic systems of organization and control, and upon mixed economies, rather than upon the traditional compartments within which economic systems are sometimes put.

**313-3 Economics of War and Peace.** A study of relations between wartime and peacetime economies with specific reference to government controls, impact of military expenditures in "hot" and "cold" wars, and the reallocation of resources.



- 314-3 Economic Analysis of the Agricultural Policies of the United States.** Emphasis on the underlying economic bases of agricultural policies and the effects of such policies on farmers, middlemen, and consumers.
- 320-6 Modern Britain.** History, economics, government, and sociology of contemporary Britain (summer only, abroad).
- 321-3 Socialization of the Individual.** A study of the emergent social process in which the native capacities of the infant are shaped and developed through interaction with significant others during infancy and childhood.
- 323-3 East and West in the 20th Century—Origins and Prospects.** Study of the development since the late 19th century of basic internal forces such as industrialization, nationalism, socialism, and fascism in the U.S., Europe, and Asia, and the manner in which these forces have led to both conflict and cooperation between these geographical areas.
- 325-3 Race and Minority Relations.** An analytical study of the status of racial, ethnic, and religious minorities in the United States.
- 331-3 The American Educational Systems.** A comprehensive study of the nature and purpose of education in the United States and of how our schools are organized, financed, and conducted.
- \*333-3 Seminar in Problems of War and Peace.** Interdisciplinary topics in the general area of war and peace.
- 339-3 Alienation and Mass Society.**
- 341-3 Marriage.** An examination of marriage in various societies with an emphasis on the origins, changes, and present status of dating, courtship and marriage in the United States.
- 343-3 Geographical Basis of International Conflicts.** Examination of geographical factors of world political relations and conflicts during the inter-war and post-war periods.
- 345-3 Introduction to American Foreign Policy.** An investigation of the means by which American foreign policy is formulated and executed and an analysis of the most significant challenges confronting America abroad.
- 354-3 Industrial Economic Geography.** Geographic resources relationship to the economic life of our nation, distribution of resources, industrial production, and the transportation of industrial products.
- 361-3 Fundamentals of Decision Making.** A study of factors and methods involved in selecting the most economical and feasible plan in industrial engineering ventures considering both the business and technical aspects involved.
- 369-3 The Contemporary Far East.** A study of relations between wartime and peacetime economies with specific references to government controls, impact of military expenditures in "hot" and "cold" wars, and the re-allocation of resources.
- 380-6 (3,3) East Europe: Cultural Heritage and Present Institutions.** (a) Cultural Heritage, (b) Present Institutions. An introduction to the European area east of the iron curtain with attention evenly divided among Russia, the Balkans, and Northern East Europe.
- 385-3 Contemporary Political Isms.** An advanced survey of recent political systems: Nationalism, Socialism, Communism, Liberal Democracy, Christian Socialism, Fascism.
- 390-3 Introduction to Comparative Government.** A comparative survey of the organization and operation of politics in modern states.
- 392-3 Introduction to Latin American Government and Politics.** A general introduction to Latin American government on the institutionalized political expression of Latin American civilization and culture. Does not require a reading knowledge of Spanish or Portuguese.

\*Problems of Peace and War is a sequence of three separate courses, (303, 313, 343) any one of which leads to an integrated seminar (333).

### Man's Insights and Appreciations (GSC)

- 100-3 Music Understanding.** Criteria for discriminative music listening as an asset to general culture. An examination of basic materials, techniques, and forms.
- 101-3 Art Appreciation.** Study of significant achievements in art related to Western culture and contemporary life.
- 102-3 Problems of Moral Decision.** An introduction to contemporary and peren-



nial problems of personal and social morality, and to methods proposed for their resolution by great thinkers of past and present.

**103-3 World Literature for Composition.** Reading in English, literary masterpieces of the Western world, to increase the student's competence in reading imaginative literature, to acquaint him with the great ideas and values of the best literature, and to train him to deal with literary materials in his writing. (Prerequisite, GSD, 102.)

**110-9 (3,3,3) An Introduction to Western Humanities.** A selection of great works expressing the aesthetic, moral, and religious values of Western man. Sets forth the critical vocabulary of six humanistic disciplines: art, music, philosophy, design, literature, and theater; provides some direct experience of each one; and calls attention to interrelations among the disciplines and between the humanities and other aspects of Western culture. Must be taken in a,b,c sequence.

**200-4 The Oral Interpretation of Literature.** Students participate in a dynamic analysis of literature stressing the creative role of the oral interpreter. Emphasis is on individual problems in understanding and communicating significant literary works.

**201-3 Introduction to Drama.** Not a history of the drama. The class will read about a dozen plays, modern and ancient, and consider how various dramatic conventions and devices are used to give form and meaning to human experience.

**202-3 Introduction to Poetry.** A variety of poems, from the simpler to the more complex, are read and discussed. Emphasis is upon enjoyment and upon heightened insight into human experience. Devices of artistic form, such as imagery and meter, are discussed as they are involved with the substance they express, human actions, feelings, and attitudes, including the poet's satisfaction in giving artistic form to his material.

**203-3 Drama and the Arts of the Theater.** The study of drama as a literary type; the relationship with the theater audience, the role of the theater in Western culture and its relation to other creative arts.

**204-4 Meaning in the Visual Arts.** A historically-oriented conception of the relationship between art and civilization which seeps through the examination of relevant examples of the visual arts to develop awareness of the great complexities of artistic motivation, the development of art styles, and the interaction between the artist and society.

**205-4 The Contemporary Environment.** A lecture-laboratory course designed to create a picture plane whereon a student may see some principles underlying architecture, visual communication, and other products of his physical and cultural environment.

**206-4 Foundation of Music.** Emphasis on the historical sequence of musical development from primitive ages through the contemporary scene. An introduction to the materials of music, including application of basic skills to keyboard performance, is provided in studio sections. Two hours of lecture, one hour of studio each week.

**207-3 Philosophy of the Beautiful.** A study of the structure and importance of the beautiful in nature, society, personality, and the arts.

**208-4 Logic and Meaning.** A critical study of expressive, informative, and other modes of discourse, with emphasis on their roles in rational process.

**209-4 Modern Literature: Form and Idea.** Designed to give the student an interest in and an understanding of the forms, themes, and values of modern American, British, and Continental literature.

**210-3 Introduction to Fiction.** A study of the chief techniques of fiction and of some of the acceptable criteria for judging fiction. Readings in some of the masterpieces among American and European short story and novel writers.

**211-9 (3,3,3) An Introduction to Oriental Humanities.** The literature, music, drama, visual art, and definitive cultural motifs of three great Asian traditions: (a) focuses on India; (b) on China; and (c) on Japan. May be taken in any order.

**305-3 Contemporary French Drama.** Study of French contemporary drama since 1930, to be read in translation, with emphasis on the piece a these, the Theatre libre, symbolist drama, and the drama of modern social problems.

**307-3 Early Islamic Culture and Civilization.** An historical study of Islamic heritage including religion, philosophy, literature and the arts.

**310-3 Religious Foundations of Western Civilization.** Examination of the his-



- torical backgrounds and contemporary expressions of Jewish, Catholic, and Protestant thought.
- 311-3 Philosophies and Religions of India.** Historical and comparative study of Hindu, Jain, and early Buddhist thought and practice.
- 312-3 Philosophies and Religions of the Far East.** Historical study of the religious and secular thought of China and Japan; Confucianism, Taoism, and the varieties of Mayhayana Buddhism.
- 317-3 Recent American Literature.**
- 318-3 Modern British Literature.** Contemporary British Fiction and Drama (Summer only—Oxford program abroad).
- 320-3 Greek Literature in Translation.** A study of the masterpieces of Greek literature in translation.
- 330-3 Classical Mythology.** Study of the classical myths and their literary value.
- 331-3 Latin Literature in Translation.** Discussion of Latin literary works and their influence on later literature.
- 332-3 Classical Drama.** Study of selected plays in English translation from Aeschylus, Menander, Plautus, Terence, and Seneca. Origins, development, and influence of Greek and Roman tragedy and comedy. Study of Aristotle's Poetics.
- 340-3 Modern Art A: The Art of the 19th Century.** The principal movements of the 19th century: neo-classicism, romanticism, realism, impressionism, and post-impressionism. The styles of David, Ingres, Delacroix, Corot, Courbet, Manet, Degas, Monet, Renoir, Seurat, Van Gogh, and Gauguin receive emphasis.
- 341-3 Modern Art B: Art of the Early 20th Century.** A study of modern art as manifest in Fauvism, cubism, and expressionism. Emphasis on the artistic development of Cezanne, Matisse, Rouault, Picasso, Braque, Gris, Leger, Kirchner, and Kandinsky.
- 342-3 Modern Art C: Art of the Mid 20th Century.** Abstraction, later German expressionism, the school of Paris, and surrealism. Special attention to the work of de Chirico, Klee, Beckman, Chagall, Kokoshka, Soutine, and late Matisse, Picasso, Braque, and Leger.
- 345-9 (3,3,3) Masterpieces of World Literature.** A study of the representative works of the varying cultures and eras: (a) ancient, Greek and Roman worlds, (b) medieval, renaissance and eighteenth century, (c) Romantic, Victorian, and modern periods.
- 348-3 Photography as Communication and Art.** The development and significance of still photography, with emphasis on photography as an art and communications medium. Study of factors making for photographic excellence to provide a basis for evaluation and discrimination of photographic images.
- 349-3 The Cinema.** The cinema as a communicative and expressive medium. Study of film types. Showings of selected films.
- 351-6 (3,3) Masterpieces of the Novel.** A study of the representative continental, English, and American novels: (a) 18th and 19th centuries, (b) 20th century.
- 354-6 (3,3) History of the Theater.** A study of (a) primitive, Greek, medieval, and Italian Renaissance theater, (b) the theater since the Italian Renaissance.
- 357-9 (3,3,3) Music History and Literature.** Integrates the development of musical thought and literature from Greek and Roman periods through the Renaissance and continuing through the twentieth century. Prerequisite: 105c or consent of instructor.
- 363-6 (3,3) Philosophy of Science.** (a) The logic of scientific explanation illustrated by analysis of physical concepts and theories. (b) The logic of explanation in the biological and behavioral sciences and their implications for the individual and society. May be taken in either a,b or b,a sequence, but a,b is preferable.
- 365-3 Shakespeare.** The major works of William Shakespeare.
- 381-3 Greek Philosophy.** The thought of the pre-Socratics, Plato, and Aristotle.
- 382-3 Graeco-Roman and Medieval Philosophies.** Epicureanism, Stoicism, and medieval Christian thought.
- 383-3 Early Modern Philosophy.** Bacon, Hobbes, Descartes, Leibniz, Spinoza, and the British empiricists in the context of the scientific and general social outlook of the period.
- 386-3 Early American Philosophy.** From the colonial period to the Civil War.
- 387-3 Recent American Philosophy.** Thought of Howison, Royce, Peirce, James, Dewey, and others.



### Organization and Communication of Ideas (GSD)

- 101-3 English Composition.** Basic rhetorical principles in expository writing.
- 102-3 English Composition.** Basic rhetorical principles in expository writing. Prerequisite: GSD 101.
- 103-3 Oral Communication of Ideas.** The basic principles and techniques of oral communication as applied to everyday speech activities.
- 106-0 Intermediate Algebra.**
- 108-9 (3,3,3) Fundamentals of Mathematics.** An introduction to mathematical concepts and reasoning presented at a level appropriate for university students who have had high school courses in intermediate algebra and plane geometry. Topics include the number system, college algebra, analytic geometry, probability and statistics. Must be taken in a,b,c sequence.
- 110-3 Economic and Business Statistics.** Elementary statistical concepts, including the nature of statistical methods, sampling, probability, frequency distributions, estimations and hypothesis. May be taken as part c of the 108 sequence by economics, business and agricultural economics students.
- 120-9 (3,3,3) Elementary Chinese.** Emphasis on development of reading skills. Must be taken in a,b,c sequence.
- 123-9 (3,3,3) Elementary French.** Open to students who have had no previous work in French. Must be taken in a,b,c sequence.
- 126-9 (3,3,3) Elementary German.** Open to students who have had no previous work in German. Must be taken in a,b,c sequence.
- 130-9 (3,3,3) Elementary Greek.** (a) Grammar is emphasized, (b,c) reading of a text, usually the New Testament. Must be taken in a,b,c sequence.
- 133-9 (3,3,3) Elementary Latin.** Open to students who have had no previous work in Latin. Must be taken in a,b,c sequence.
- 135-9 (3,3,3) Elementary Portuguese.**
- 136-9 (3,3,3) Elementary Russian.** No previous knowledge of Russian required. Must be taken in a,b,c sequence.
- 140-9 (3,3,3) Elementary Spanish.** Open to students who have had no previous work in Spanish. Must be taken in a,b,c sequence.
- 144-9 (3,3,3) Elementary Italian.** Open to students who have had no previous work in Italian. Must be taken in a,b,c sequence.

Notes pertaining to GSD 120 through 144:

1. Sections of conversation for 1 hour of credit are available with each of these languages, but on an elective basis.
2. Students having had high school language training should see the Department of Foreign Languages for placement.

### Health and Physical Development (GSE)

Courses numbered 100-104 are for men; 110-114 are for women.

- 100-3 (1,1,1) Restricted Physical Education (Men).**
- 101-3 (1,1,1) Swimming (Men).** (a) Beginning swimming, (b) Intermediate swimming, (c) Diving.
- 102-1 Physical Fitness (Men).**
- 103-3 (1,1,1) Dance (Men).** (a) Square, (b) Folk, (c) Social.
- 104-(1 per activity) Individual and Team Activity. (Men).** (a) Archery, (b) Badminton, (c) Basketball, (d) Bowling, (e) Golf, (f) Soccer, (g) Speedball, (h) Tennis, (i) Volleyball, (j) Softball, (k) Horseback riding, (m) Fencing, (n) Cross country, (p) Ice Skating, (q) Fly and bait casting, (r) Stunts and tumbling, (s) Gymnastics, (t) Touch football, (u) Wrestling, (v) Personal defense, (w) Judo, (x) Handball.
- 110-3 (1,1,1) Restricted Physical Education (Women).**
- 111-3 (1,1,1) Swimming (Women).** (a) Beginning Swimming, (b) Intermediate Swimming, (c) Diving.
- 112-1 Exercise for Fitness (Women).**
- 113-5 (1,1,1,1,1) Dance (Women).** (a) Square, (b) Folk, (c) Social, (d) Beginning Contemporary, (e) Intermediate Contemporary.
- 114-(1 per activity) Individual and Team Activity (Women).** (a) Archery,

(b) Badminton, (c) Basketball, (d) Bowling, (e) Golf, (f) Soccer, (g) Speedball, (h) Tennis, (i) Volley Ball, (j) Softball, (k) Horseback riding, (m) Fencing, (n) Hockey, (p) Gymnastics and tumbling, (r) Track and field, (s) Intermediate Bowling, (t) Intermediate Tennis, (u) Intermediate Golf.  
**201-3 Healthful Living.** Personal and community health. Presents scientific health information as a basis for helping the student develop wholesome health attitudes and practices.

### Accounting

**250-4 Accounting Fundamentals.** A study of accounting principles covering the more prevalent types of business organizations. Usefulness of accounting reports and data rather than technical practice is stressed. Not open to students with a concentration in the School of Business or the Business Division.

**251-12 (4,4,4) Accounting.** Principles and practices in handling transactions in original recordings and books of account; trial balances, adjustments, and construction and presentation of financial statements for proprietorships, partnerships, and corporations. Third course in this sequence emphasizes management's uses of the product of the accounting function, through budgeting procedures, cost accounting, and other criteria for sound decision-making. Must be taken in a,b,c sequence. Prerequisite: sophomore standing.

**309-2 Individual Income Tax.** Preparation of income tax returns. Federal income tax law as applied to individuals. Not open to those with a concentration in accounting.

**331-4 Tax Accounting.** Study of accounting principles and procedures for meeting requirements of current laws and regulations which relate to federal income tax. Laboratory problems and preparation of tax returns with special emphasis on the individual taxpayer. Prerequisite: 251-12.

**341-4 Cost Accounting.** Interpretation and managerial implications of material, labor and overhead for job order, process and standard cost systems, cost-volume-profit relationships. Accounting for complex process production flows, joint and by-products, spoilage, defective units, and scrap. Reports to management. Prerequisite: 251-12.

**351-8 (4,4) Intermediate Accounting.** Further study of current accounting principles and procedures relating to various elements of financial reporting. Special emphasis on asset valuation, income determination, and alternative statement construction. Also, analysis and interpretation of statements; preparation and use of special statements. Must be taken in a,b sequence. Prerequisite: 251-12.

**355-3 Governmental Accounting.** Study of the unique characteristics of fund accounting used in governmental units and subdivisions, and in certain private institutions. Emphasis upon budgeting and accounting control as a means of furthering sound financial administration of these organizations. Prerequisite: 251-12.

**410-4 Accounting Concepts.** Interpretation and critical analysis of reports, statements and other accounting data from the viewpoint of users of financial information. For entering MBA students.

**415-4 Electronic Data Processing in Business.** A study of the uses of electronic computers in business data processing. Includes an introduction to linear programming as it assists management in decision making. The student will prepare some programs in compiler language. There will be a limited amount of instruction in the operation of computer equipment. Prerequisite: 251-2 and consent of instructor.

**432-4 Problems in Federal Taxation.** Study of income tax problems which arise from partnership, corporation, estate, and trust types of organization. Brief study of social security, federal estate, and gift taxes. Student does research in source materials in arriving at solutions of complicated tax problems. Prerequisite: 331.

**442-4 Advanced Cost Accounting.** Managerial control and profit planning through direct and relevant costing, return on investment, capital budgeting, inventory planning and control, subjective probabilities, statistical methods, and operations research. Nonmanufacturing costs, differential and comparative cost analysis. Prerequisite: 341.

**453-4 Advanced Accounting.** Advanced study of accounting principles and procedures relating to specialized topics, including partnership equity, installment



and consignment sales, insurance, branch accounts, compound interest in relation to accounting practice, and preparation and use of consolidated statements. Prerequisite: 351-8.

**456-4 Auditing.** Objectives, standards, and procedures involved in examining and reporting on financial statements of business organizations. Prerequisites: 331, 341, 351-8.

**458-4 Accounting Systems.** Problems in accounting systems design and installation. Examination of existing systems and practice in system design and reports. Prerequisites: 341, 351-8.

**459-4 Internship in Accounting.** Supervised work experience in professional accounting. Prerequisite: outstanding record in accounting and recommendation of the committee on internship.

**461-4 C.P.A. and Advanced Accounting Problems.** A problems approach to accounting principles and procedures, with emphasis on financial reporting and additional specialized topics, primarily using the standardized examination of the American Institute of Certified Public Accountants. Prerequisites: 341, 351-8.

### Aerospace Studies

**100a-0 Corps Training.**

**101-1 Evolution of Conflict.** One hour lecture-discussion; one hour Corps Training.

**102-1 United States Defense Organization.** One hour lecture-discussion; one hour Corps Training.

**103-1 United States Military Posture.** One hour lecture-discussion; one hour Corps Training.

**200a-0 Corps Training.**

**201-1 United States Military Forces.** One hour lecture-discussion; one hour Corps Training.

**202-1 Aerospace Support Forces.** One hour lecture-discussion; one hour Corps Training.

**203-2 Ideological Conflicts.** Two hours lecture-discussion; one hour Corps Training.

**300-0 Corps Training.**

**301-3, 302-3, 303-3 Aerospace Studies 3 Professional Officer Course.** A study of the nature of war, the growth and development of aerospace power, the United States Air Force, astronautics and space operations, and the future development of aerospace power. Involves specific exercise of written and spoken communication skills. Requires 3 hours lecture-seminar; A 1 hour corps training period is also required. Prerequisites: satisfactory completion of the GMC or six week field training course.

**340-0 Corps Training.**

**350-2 Aerospace Studies 4.** A study of flight regulations, weather, and navigation. 2 hours lecture, demonstration-performance. Prerequisite: Enrollment in AF ROTC Flight Instruction Program or with consent of the PAS.

**351-3, 352-3, 353-3 Aerospace Studies 4. Professional Officer Course.** A study of professionalism, leadership, and management. Includes professional responsibilities, the military justice system, leadership theory, functions and practices, management principles and functions, problem solving, and management tools, practices, and controls. Three hours lecture-seminar; A 1 hour corps training period is also required. Prerequisite: A.S. 301, 302, and 303, or with consent of the PAS.

### Agricultural Industries

**114-4 Introduction to Agricultural Economies.** Agriculture in local and national economy; distribution; size and organization of the farm business units; policies affecting agriculture.

**210-2 Introduction to Agricultural Education.** An introduction to the history and philosophy of agricultural education.

**214-2 Agricultural Drawing.** The fundamentals of lettering; use of instruments, orthographic and isometric projections, topographic drawing, and graphic depiction of statistical information.

**215-4 Introduction to Farm Structures and Electrification.** An introduction to



- the basic concepts of structures and electricity as they apply to agriculture. Includes farm structures, soil and water structures, and farm electrification.
- 303-4 Surveying.** Elementary surveying; use of tape, compass, level, and transit, with practice in making simple maps. Prerequisite: 214, and Mathematics 114c.
- 306-5 (3,2) Soil and Water Conservation.** (Same as Plant Industries 306.) (a) The study of the theoretical factors affecting soil erosion and excessive water run-off, including practices of water management and soil conservation. Prerequisite: one course in soils. (b) Laboratory. Practical structural methods of controlling water run-off and soil erosion. Prerequisite: 306a or concurrent enrollment.
- 309-5 Agricultural Education.** Methods of teaching agriculture in secondary schools. Take concurrently with 312 in a professional quarter. Field prerequisites: GSB 201b, Guidance 305, Secondary Education 310, 48 hours in agriculture.
- 310-4 General Agriculture.** A survey of the agricultural field as it relates to the art and science of food and fiber production; problems in livestock and poultry production; soil and water management; and field crops, fruit, and vegetable production. No credit for Agriculture Majors.
- 311-3 Adult Education in Agriculture.** Nature and scope of adult education in agriculture; methods of effectively working with adult and young farmer groups. Prerequisite: Guidance 305.
- 312-12 (2,10) Student Teaching in Vocational Agriculture.** (a) Summer Practice. An internship with the vocational agriculture teacher in an approved center for practice in summer activities. (b) Student teaching. Experience in conducting a complete program in vocational agriculture in an approved center. Taken concurrently with 309.
- 350-5 Farm Management.** Measuring profits, principles, and practice in organizing and operating the business. Field trips. Prerequisites: GSB 211a, junior standing.
- 351-4 Farm Financial Management.** Farm records and accounts as aids in solving financial problems; obtaining and using credit and insurance, budgeting. Prerequisite: 350 or consent of instructor.
- 352-3 Agricultural Prices.** Fluctuations in the general price level, causes and stabilization policies as they affect agriculture. Price determination including the measurement of supply and demand, elasticity, their application to price stabilization. Prerequisites: 354, GSB 211a.
- 354-3 Agricultural Marketing.** Marketing outlets for farm products, price determinants, agricultural market efficiency, margins, and costs. Prerequisite: GSB 211a.
- 373-5 Farm Power and Machinery.** A basic course to acquaint the student with the principles, operating adjustments, maintenance, and management of common farm power units and field machines. Prerequisite: Mathematics 111a or equivalent.
- 374-4 Farm Electrification.** A study of the more common electrical fundamentals and their application to farmstead needs; factors to consider in the selection and use of specialized electrical equipment and motors. Prerequisite: Mathematics 111a.
- 375-3 Farm Shop.** Set-up of the farm workshop; selection, care, and use of tools and machinery for farm repair work; equipment construction. Prerequisite: Mathematics 111a or equivalent.
- 376-4 Advanced Farm Power.** An advanced treatment of selected topics including power and power measurement, fuels and lubricants, basic mechanics of the farm tractor chassis, newer types of transmissions, use of test and tuneup equipment. Prerequisite: 373.
- 377-4 Farm Structures.** Basic requirements of farm buildings; materials used; elementary principles of design; practical application of these principles. Prerequisite: Mathematics 111a or equivalent.
- 381-1 to 2 Agricultural Seminar.** (Same as Animal Industries 381, Forestry 381, and Plant Industries 381.) Discussions of problems in agriculture. Limited to senior students.
- 390-1 to 6 Special Studies in Agricultural Industries.** Assignments involving research and individual problems. Field trips. Prerequisite: consent of chairman.
- 410-2 to 4 Problems in Agricultural Services.** Discussion, assignments, and

special workshops on problems related to in-service training programs in the agriculturally related fields. Development of more effective programs in working with farm people. Prerequisite: graduate student in agricultural services or consent of instructor.

**411-3 Agricultural Extension.** A study of the history, organization, objectives, programs, and methods of agricultural extension work. Prerequisite: Journalism 393 and a course in psychology or sociology or consent of instructor.

**413-3 Agricultural Education Practices.** A discussion of problems and practices in teaching agriculture. Prerequisite: 312b.

**417-4 Agricultural Development in Emerging Countries.** Principles and practices in improving agriculture in areas with limited capital and low levels of technology. Special emphasis on developments in Asia, Africa, and South America. Prerequisite: GSB 211a.

**450-4 Advanced Farm Management.** Methods of analyzing farm enterprises, comparing farm businesses, allocating farm resources, combinations of enterprises, and production factors. Field trips. Prerequisite: 350.

**456-11 (3,2,2,2,2) Agricultural Marketing Problems and Practices.** (a) Cooperatives. Development of the agricultural cooperative movement, agricultural cooperative organization, legal requirements, principles and practices of agricultural cooperative associations. (b) Livestock. Problems and their solutions in marketing livestock. (c) Field Crops. Problems and their solutions in marketing field crops. (d) Dairy and Poultry. Problems and their solutions in marketing dairy and poultry products. (e) Horticultural crops. Problems and their solutions in marketing horticultural crops. Field trips cost \$5. Prerequisites: 354, GSB 211a, or consent of instructor.

**471-4 Land Resource Economics.** (Same as Forestry 471 and Economics 471.) The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resources planning techniques. Field trips. Prerequisite: 350 or Forestry 470.

**478-4 Advanced Farm Machinery.** Materials on construction; basic mechanics involved in tillage machinery; rotary power transmission; product cleaning, drying, and sorting; costs of operation; materials handling. Prerequisites: 350, 373, 374, or consent of instructor.

**505-3 Agricultural Economics Research Methods.**

**520-1 to 6 Readings.**

**520b-1 to 6 Readings in Resource Economics.**

**550-4 Production Management.**

**552-2 Advanced Agricultural Prices.**

**554-4 Advanced Agricultural Marketing.**

**575-1 to 6 Research.**

**581-1 to 6 Seminar.**

**582-1 to 3 Seminar on Foreign Agricultural Problems.**

**599-2 to 9 Thesis.**

## Animal Industries

**105-4 Animal Husbandry.** Survey of beef cattle, sheep, and hog industries; laboratory work in judging. Field trip.

**125-4 Elementary Poultry Production.** Brooding and rearing of chicks; housing, feeding, disease control, flock selection, management, and marketing.

**231-4 Dairy Husbandry.** Introductory work, including selection, herd improvement, milk secretion, manufacturing of dairy products.

**311-7 (2 or 3,2,2) Evaluation and Selection of Farm Animals and Animal Products.** (a) Comparative selection and evaluation of livestock and poultry and their products. (b) Grading and selection of breeding and producing meat animals, dairy or poultry. (c) Comparative grading and selection of live animals and evaluation of products. Those with interest in livestock or poultry must take in a, b, c, sequence, while those interested in dairy must take in b, c, sequence. Prerequisite: 105 or 125 or 231 and consent of instructor.

**315-4 Feeds and Feeding.** Principles of domestic animal nutrition and feeding. Balancing rations. Prerequisite: 105, 125, or 231.

**316-4 Insect Pests and Their Control.** (See Zoology 316.)

**319-3 Horses.** Types, breeds, selection, use, care, and management of saddle and draft animals. Field trip. Prerequisite: 315 or consent of instructor.



**321—4 Processing and Grading of Poultry Products.** Skills required in price determination, processing, grading, storage, merchandising, and distribution of poultry products. Prerequisite: 125.

**327—4 Hatchery and Breeding Farm Management.** Flock selection, testing, sexing, trade rules and regulations, trap-nesting, wing-banding, incubation, disease control, hatchery-producer agreements, records. Prerequisite: 125.

**332—4 Animal Breeding and Genetics.** The application of the basic principles of genetics and breeding systems to the improvement of farm animals. Prerequisites: 105, 125, or 231; GSA 203 or equivalent.

**337—4 Animal Hygiene.** Contagious, infectious, and nutritional diseases and parasites of animals; their prevention and control. Field trip. Prerequisites: 105, 125 or 231.

**381—1 to 2 Agricultural Seminar.** (Same as Agricultural Industries 381, Forestry 381, and Plant Industries 381.) Discussions of problems in agriculture. Limited to junior and senior students.

**390—1 to 6 Special Studies in Animal Industries.** Assignments involving research and individual problems. Approval of department chairman required. Juniors and seniors only.

**415—8 (4,4) Animal Nutrition.** (a) Physical and chemical properties of nutrients and their uses and principles involved in determination of nutrient requirements. (b) An integration of the basic facts concerning the nature of nutrients and their metabolism. Must be taken in a,b sequence. Prerequisite: 315 and organic chemistry or equivalent.

**420—4 Commercial Poultry Production.** Broilers, layers, and turkeys as adapted to poultry specialty farms. Field trips. Prerequisite: 125.

**430—4 Dairy Production.** Milk sanitation, feeding, breeding, calf raising, records, buildings and equipment, sanitation, and diseases. Field trip. Prerequisites: 231, 315, 332.

**431—4 Reproduction and Artificial Insemination of Farm Animals.** The anatomy and physiology of reproduction and the principles of artificial insemination in farm animals. Field trip. Prerequisites: 105 or 231; GSA 201C or equivalent.

**432—3 Quantitative Inheritance of Farm Animals.** A review of the principles underlying the influence of mutation, selection, migration, and random drift in animal breeding populations; estimation and interpretation of heritabilities and genetic correlations; effects of variances of quantitative traits of farm animals. Prerequisite: 332.

**433—3 Feeding Dairy Cattle.** Nutrient requirement of dairy cattle. Feeding calves and heifers for commercial growth, and cows for economical milk production. Pasture, hay, and silage utilization in milk production. Field trip. Prerequisites: 231 and 315 and organic chemistry.

**456—4 (2,2) Agricultural Marketing Problems and Practices.** (b) Livestock. Problems and their solutions in marketing livestock. (d) Dairy and poultry. Problems and their solutions in marketing dairy and poultry products. Prerequisites: GSB 211a, Agricultural Industries 354 or consent of instructor. (See also Agricultural Industries 456.)

**465—5 Swine Production.** Breed selection, breeding, feeding, management, and marketing of swine. Field trip. Prerequisites: 105, 315, 332.

**480—4 Sheep Production.** Breeding, feeding, and management of sheep. Field trip. Prerequisites: 105, 315, 332, 431.

**485—4 Beef Production.** Breeding, feeding, and management of beef and dual-purpose cattle. Field trip. Prerequisites: 105, 315, 332, 431.

**486—4 The Range Livestock Industry.** Designed to acquaint advanced animal industries students with range livestock operation; consists of full-time classroom review of beef cattle and sheep production followed by a two-to-three-week field trip through the range area. Prerequisites: 480, 485. Summer only.

**487—4 Commercial Livestock Feeding.** Consideration of principles and problems in fattening beef cattle and sheep for market. Field trip. Prerequisites: 105 and 315 and organic chemistry.

**505—8 (4,4) Research Methods in Agricultural Science.**

**520—1 to 6 Readings in Animal Industries.**

**525—4 Advanced Poultry Production.** Prerequisite: Organic Chemistry.

**530—4 Advanced Dairy Production.**

**565—4 Advanced Swine Production.**

**575—1 to 6 Individual Research.**

**579—4 Animal Behavior.**



581-1 to 6 Seminar.

585-4 Advanced Beef Production.

599-2 to 9 Thesis.

## Anthropology

**300-3 Physical Anthropology.** Man as a biological being, his relationships to other living things. Human origins and development. Concept of race and the races of mankind. Human genetics and normal human variation.

**303-3 Old World Prehistory.** A survey of man's earliest cultural beginnings. Paleolithic and Neolithic periods in Europe, Africa, the Near East, and Asia.

**304-3 The Origins of Civilization.** A study of the complex environmental and cultural factors that led to the rise and fall of early high-cultures in both the Old and New Worlds.

**305-9 (3,3,3) Peoples and Cultures of the World I.** The biological and cultural history of man in (a) North America, (b) Asia, and (c) Oceania from early times to the present.

**306-9 (3,3,3) Peoples and Cultures of the World II.** The biological and cultural history of man in (a) South America, (b) Europe, and (c) Africa from early times to the present.

**400-4 Man and Culture.** The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on "the anthropological point of view."

**401-4 Language in Culture.** Language as a part of culture. Linguistics and the study of culture.

**402-4 Human Biology: The Interaction of Biological and Cultural Behavior.** The viewing of man as to his zoological position, genetics, past and present; and the biological bases for his unique behavior in the animal world, i.e., cultural behavior.

**404-4 Primitive Art and Technology.** The development of man as a tool-using and art-loving being. Artistic and technological traditions of non-Western peoples, past and present.

**405-4 Social Anthropology.** A comparative approach to the organizational features of human groups. Functional aspects and distributions of kinship, political, religious, and economic systems.

**408-8 (4,4) History of Anthropological Thought.** The growth of anthropology to about 1860, followed by a more intensive survey of the concepts and ideas of anthropology during the past hundred years.

**409-4 Anthropology and Modern Life.** The applications of anthropological principles to the solution of problems of the modern world. Contributions of anthropology to the work of the educator, social worker, administrator, business man, government official, and other specialists dealing with man in Western and non-Western cultures.

**413-4 Introduction to General Linguistics.** A study of language theory, classification, and change.

**415-3 Logic of the Social Sciences.** (Same as Philosophy 415.) Logical and epistemological examination of the social studies as types of knowledge. Basic problems in philosophy of science with major emphasis upon social science; relationship of theory to fact, nature of induction, nature of causal law, testability, influence of value judgments, etc. Intended for students with considerable maturity in a social science or in philosophy.

**418-4 Languages of the World.** A description of typological and genetic (historical) relationships among languages of the world with emphasis on comparative phonology and grammatical structure in time and space.

**483-3 to 18 Individual Study in Anthropology.** Guided research upon anthropological problems. Students should consult the chairman before enrolling.

**501-9 (3,3,3) Proseminar in Physical Anthropology.**

**503-9 (3,3,3) Proseminar in Archaeology.**

**505-9 (3,3,3) Proseminar in Linguistics.**

**507-9 (3,3,3) Proseminar in Social Anthropology.**

**509-9 (3,3,3) Proseminar in Ethnology.**

**510-3 to 9-Seminar in New World Archaeology.**

**511-3 to 9 Seminar in Mesoamerican Archaeology.**

**512-3 to 9 Seminar in Old World Archaeology.**

**520-3 to 9 Seminar in the Ethnology of the New World.**

- 521-3 to 9 Seminar in the Ethnology of Mesoamerica.
- 522-3 to 9 Seminar in the Anthropology of Oceania.
- 523-3 to 9 Seminar in the Anthropology of Africa.
- 524-3 to 9 Seminar in the Anthropology of Europe.
- 535-3 to 9 Seminar in Physical Anthropology.
- 545-3 to 9 Seminar in Linguistics.
- 550-3 to 9 Seminar in the Cultures of Latin America.
- 560-3 to 9 Seminar in Comparative Social Organization.
- 562-3 to 9 Seminar in the Anthropology of Contemporary Peoples.
- 565-3 to 9 Seminar in Cultural Change and Development.
- 567-3 to 9 Seminar in Anthropological Theory and Method.
- 570-3 to 9 Seminar in Art and Technology.
- 575-3 to 9 Seminar in the Individual and Culture.
- 581-3 to 9 Seminar in Anthropology.
- 582-3 to 9 Problems in Archaeology.
- 584-3 to 9 Problems in Cultural Anthropology.
- 585-3 to 9 Readings in Anthropology.
- 595-6 (3-3) Field Methods in Ethnology.
- 596-6 (3-3) Field Methods in Archaeology.
- 597-3 to 27 Fieldwork in Anthropology.
- 599-1 to 9 Thesis.
- 600-1 to 48 Dissertation. (No more than 18 hours in any quarter).

### Applied Science

- 300-5 University Physics IV. (See Physics 300)
- 307-5 Analytical Problems in Technology. Methods of formulation and solution of special problems encountered in industry and technology using advanced techniques. Prerequisites: Mathematics 111a,b or equivalent.
- 401-12 (4,4,4) X-Ray Crystallography. (a) Introductory Crystallography. Lattice theory of the crystal. Miller indices. Crystal zones. The Bravais lattices. Symmetry elements. Proper and improper rotations. Point groups: crystal classes. Operators involving translation. Space groups. Elements of crystal structure. Coordination. Structure types. (b) X-Ray Diffraction Techniques. X-ray diffraction by single crystals: fundamental equations. Reciprocal lattice and Ewald sphere. Optical analog: The optical diffractometer. Single crystal photographic methods: the Laue method: rotating and oscillation, Weissenberg, Buerger-precession and Jong-Bourman. Divergent and convergent-beam techniques. Interpretation of the x-ray diagrams. Diffractometric methods; fundamentals. Identification of polycrystalline materials with x-ray diffractometer (power method). Single crystals diffractometry. Absolute intensity measurements. (c) Crystal Structure Analysis. Fundamental diffraction relations. Determination of the cell size, chemical formula, symmetry and space group. Measurement of intensities: geometrical and physical factors affecting intensities. The structure factor; phase of the structure factor. The anisotropic temperature factor. Fourier synthesis. Electron-density projections. The phase problem. Utilization of anomalous dispersion. Direct determination. The Patterson method. Refinement of the structure with high speed computers.
- 418-3 Digital Computers in Research. Computational techniques for matrix inversion, solution of linear equations, and characteristic roots and vectors; least squares analysis, curve-fitting, and regression; design of experiment; solution of nonlinear equations; min-max functional approximation techniques; generation of approximate solutions, Monte Carlo techniques. Prerequisite: Engineering 222 or Mathematics 225 or equivalent and concurrent enrollment in Mathematics 421a.
- 419-3 Computer Applications. A study of methods for efficient utilization of high speed electronic data processing equipment in the processing of statistical data. Emphasis is on principles of applications of computing equipment to the solution of statistical problems. Students are expected to solve problems on the computers. Prerequisite: Mathematics 410a or Guidance 520a or Psychology 520, and a knowledge of FORTRAN or consent of instructor.
- 421-3 Programming Languages. A study of the development and use of programming languages for high speed stored program digital computers.



Included are problem-, procedure-, and machine-oriented languages, symbolic languages, interpretive systems, macro assemblers, and list processors. A comparison of the languages will be made and each student will prepare programs using the languages studied. Prerequisite: Engineering 222, Mathematics 225 or consent of instructor.

**422-3 Programming Systems.** The use and methods of electronic data processing systems. Topics are searching, ordering, codifying, information retrieval, process control, executive routines, and heuristic programming. The student will apply system techniques for solution of problems using one or more of the available high speed digital computers. Prerequisite: Engineering 222 or Mathematics 225 or consent of instructor.

**425-2 to 8 Practicum in Technology.** Experiences in the industrial applications of technological knowledge. Cooperative arrangements with selected corporations and professional organizations provide opportunity to study technical problems in the industrial environment under the directions of specialists. Prerequisite: 12 hours in technical subjects; consent of the coordinator.

**430-2 to 8 Special Problems in Industry and Technology.** Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of coordinator.

**431-9 (3,3,3) Nuclear Science.** An introductory course to provide a background for further work in Nuclear Science. Lectures and problems in radioactivity and the uses of radio isotopes, nuclear engineering, introductory reactor theory, and use of an analog computer in solving problems of neutron transport and reactor kinetics. Prerequisites: Mathematics 252b and Applied Science 300.

**432-3 Nuclear Laboratory.** Health physics instruments; characteristics of alpha, beta, and gamma rays; radioactive decay; counting statistics; fundamental neutral experiments. Prerequisite: 300.

**450-4 Fundamentals of Reactive Systems.** Chemical processes, stoichiometry, properties of gases, solution chemistry, modern techniques of analysis, surface chemistry. Nonideal systems, rates and mechanisms of industrial processes. Instrumentation and process control. Laboratory. Prerequisites: Chemistry 111b,c and one year of calculus or consent of instructor.

**470-6 (3,3) Engineering Analysis.** (a) Basic vector field theory; transformation theorems. Methods of solution for basic ordinary differential equations with applications to engineering systems. Prerequisite: Mathematics 252b (b) Basic methods of solution for partial differential equations with emphasis on applications of the Laplace, Poisson and heat equations to engineering problems. Basic complex variables, matrix theory, numerical analysis and simulation techniques applied to engineering systems. Prerequisite: 470a or Mathematics 305a.

**501-16 (4,4,4,4) Materials Science.**

**503-12 (4,4,4) Physical Properties of Crystalline Materials.**

**504-12 (4,4,4) X-Ray Diffraction and the Solid State.**

**521-6 (3,3) Design of Automatic Programming Language Processors.**

**522-6 (3,3) Programming Systems Design.**

**530-3 Nuclear Processing.**

**570-2 to 6 Special Investigations.**

**580-1 to 9 Seminar.**

**599-1 to 9 Thesis.**

## Art

Art Education Courses: 300, 306, 307, 308, 365, 408, 460, 466, 560, 566, 599.

Art History Courses: 225, 309, 345, 346, 347, 348, 349, 350, 356, 369, 380, 445, 449, 471, 473, 475, 482, 483, 571, 573, 599.

Studio Courses: 100, 200, 302, 325, 332, 341, 358, 385, 393, 400, 401, 404, 405, 406, 410, 416, 420, 426, 430, 436, 440, 441, 446, 493, 501, 502, 504, 506, 511, 516, 520, 526, 530, 540, 546, 599.

**100-15 (5,5,5) Basic Studio.** A studio course in visual fundamentals emphasizing the ways in which art may be structured. Studio experience in two- and three-dimensional materials. Must be taken in a,b,c sequence.



- 200-12 (4,4,4) Studio Disciplines.** Disciplines in drawing, painting, and sculpture.
- 225-9 (3,3,3) Introduction to Art History.** The student is acquainted with the nature of art as a human activity in order to gain an understanding of its significance now and in the past through three distinct sequential courses: (a) the nature of visual art and history, (b) classification of art in major historical periods, and (c) representative problems in the history of art.
- 245-2 to 12 The Figure.**
- 300-12 (4,4,4) Art Education.** Theory and practice of art activities in the elementary schools. Designed for elementary education students.
- 302-2 to 12 Pottery.** Advanced subject matter adjusted with reference to number of hours of credit in ceramics previously earned.
- 306-3 Materials and Techniques in Art Education.** Studio courses providing a broad experimental experience with materials and techniques adaptable to art classes in grade and high school. In addition to studio assignments, each student is required to complete a working file of published material and notes on materials and techniques in art.
- 307-3 Theory and Philosophy of Art Education.** Survey of art education theory providing the art education student with an introduction to theoretical studies in his field, and through scheduled observation visits to art classes at the University School, with the problems of relating theory to practice.
- 308-3 Curriculum and Administration in Art Education.** Provides experience in dealing with problems of planning, organizing, introducing, and administering art curricula in grade and high school. Includes comparative study of published material and preparation of a working file on the subject.
- 309-3 Oriental Art.** A survey of Asiatic arts.
- 320-2 to 12 Oil Painting Techniques.** Individual work in the development of painting ideas. Prerequisite: 100, 200.
- 323-4 The Figure Advanced.**
- 325-2 to 15 Studio.** No more than 4 hours per quarter. Prerequisites: 8 hours in medium of choice (except where such courses do not exist) and consent of instructor.
- 332-2 to 12 Jewelry and Silversmithing.** Basic processes in jewelry and metalwork. Emphasis upon design experience and high critical standard.
- GSC340 Art of the Nineteenth Century.** A survey of modern art history from the French Revolution to the present: (a) art from the beginning of the Romantic period through Impressionism, (b) post impressionism and the early 20th century, and (c) art since the First World War.
- 341-2 to 12 Drawing.**
- 350-6 (3,3) American Art.** A survey of American painting, sculpture, and architecture from the early 18th century to the present.
- 351a-3 Art of Ancient Asia and America.** A survey of early developments in architecture and the plastic arts of related civilizations in India, China, Japan and Ancient America, from Prehistoric evidence to major monuments of the First Millenium, A.D.
- 351b-3 Oriental Art.** General survey of the major pictorial arts of China from six dynasties to Ch'ing dynasty, of Korea from Silla period to Ti dynasty, and of Japan from Asuka to Edo periods. Some attempt will be made to trace influences central to the development and spread of important styles and to relate art to the classics of Oriental aesthetics. Special emphasis will be placed upon Sung painting.
- 351c-3 Islamic Art.** A survey of important monuments and art works produced in the context of Islamic culture in the Near East, Africa, Spain, Persia, Turkey and India from the 17th century to the present.
- 356-3 Theory of Art.**
- 358-2 to 12 Prints.** Introduction to printmaking as a medium. Studio projects in intaglio, relief, and planographic processes.
- 365-4 Art Education in the Secondary Schools.** For art education students preparing to teach on secondary level; includes studio projects designed to develop awareness of technical and aesthetic needs of high school students, reading and discussion of literature, planning of curriculum.
- 369-3 Primitive Art.** A study of the arts of "Primitive" peoples of Africa, the Pacific, and the Americas. Characteristic works are interpreted in context with the general conditions of primitive society. The significant influences of primitive art on modern painting and sculpture are considered.
- 380-4 Theory and Appreciation of Art.**

- 385-2 to 12 **Weaving.** Development of understanding of two and four harness loom and essential processes in weaving simple and pattern textiles.
- 393-4 to 12 **Sculpture.** Problems in modeling, carving, casting and construction. Prerequisite: 200-12.
- 401-2 to 12 **Research in Painting.**
- 405-2 to 12 **Studio in Sculpture.**
- 406-2 to 12 **Studio in Painting.**
- 408-4 **Art Education for Elementary Teachers II.**
- 410-2 to 12 **Research in Prints.**
- 416-2 to 12 **Studio in Prints.**
- 420-2 to 12 **Research in Pottery.**
- 426-2 to 12 **Studio in Pottery.**
- 430-2 to 12 **Research in Metal Construction.**
- 436-2 to 12 **Studio in Metal Construction.**
- 440-2 to 12 **Research in Weaving.**
- 441-2 to 6 **Studio in Drawing.**
- 445-9 (3,3,3) **Modern Art.** (a) 19th century, (b) Early 20th century (c) Mid 20th century.
- 446 2 to 12 **Studio in Weaving.**
- 447a-3 **The Art of Ancient Egypt and The Near East.** A survey of principal monuments and archeological evidence relevant to an appraisal of the origins and development of art in the early civilizations of Africa, Western Asia, Europe, and the Aegean from prehistoric times to the rise of the Persian Empire.
- 447b-3 **The Art of Ancient Greece.** A study of the origins, development and influence of art produced in Greece and its colonies from the Bronze age to the Roman Empire.
- 447c-3 **The Art of the Ancient Romans.** An appraisal of the natural culture and art of the Roman civilization, its debt to other ancient civilizations and achievements in architecture, sculpture and painting from its foundation until the reign of Constantine.
- 448a-3 **Early Christian and Byzantine Art.** A survey of problems related to art and architecture produced in Christian communities and under the aegis of the Byzantine Empire until the fall of Constantinople.
- 448b-3 **Early Medieval and Romanesque Art.** A study of the development of architecture and art in Europe from the fall of the Roman Empire to the formulation of the Gothic style.
- 348c-3 **Gothic Art.** A survey of major developments in Architecture, Sculpture and Painting in Europe from the earliest formulation of Gothic style to its decline in the Renaissance period.
- 449a-3 **Art of the Renaissance in Europe.** A study of developments in art during the 15th century in Italy and the Lowlands leading to the High Renaissance and its impact on European painting, sculpture and architecture of the 16th century.
- 449b-3 **Baroque Art in Europe.** A study of the formation of national styles in the arts of Italy, Spain, Austria, Germany, France, Flanders and Holland from the 16th to the 17th centuries with particular attention to major masters.
- 449c-3 **The Art of 18th Century Europe.** A study of architecture, sculpture and painting in European countries and colonies from the end of the seventeenth century to the French Revolution with particular emphasis on the Rococo Art of Italy, England, Spain and France.
- 450-1 **The Visual Arts in Higher Education.**
- 451a-3 **Art of Ancient Asia and America.** A survey of early developments in architecture and the plastic arts of related civilizations in India, China, Japan and Ancient America, from prehistoric evidence to major monuments of the First Millenium A.D.
- 451b-3 **Painting in the Far East.** General survey of the major pictorial arts of China from six dynasties to Ch'ing dynasty, of Korea from Silla period to Ti dynasty, and of Japan from Asuka to Edo periods. An attempt will be made to trace influences central to the development and spread of important styles and to relate art to the classics of Oriental aesthetics.
- 451c-3 **Islamic Art.** A survey of important monuments and art works produced in the context of Islamic culture in the Near East, Africa, Spain, Persia, Turkey and India from the 7th century to the present.
- 460-2 to 12 **Research in Art Education.**
- 466-2 to 12 **Studio in Art Education.**



**471-3 Baroque Painting in Italy.** Major developments in style and expression in Italian painting from the Late Mannerist Period until the early 18th century.

**482-15 (3,3,3,3,3) Art History Seminar.** Lectures, discussions and reports on subjects of special interest which will be announced periodically in the following general areas: (a) ancient art, (b) medieval art, (c) Renaissance art, (d) modern art, and (e) oriental art.

**483-15 (3,3,3,3,3) Research in Art History.** Individual research in the painting, sculpture, architecture, and related art in the following areas: (a) ancient art, (b) medieval art, (c) Renaissance art, (d) modern art, and (e) oriental art.

**493-2 to 12 Advanced Sculpture.**

**501-2 to 12 Seminar in Painting.**

**502-2 to 12 Seminar in Sculpture.**

**504-2 to 12 Research in Sculpture.**

**506-2 to 12 Research in Painting.**

**511-2 to 12 Seminar in Prints.**

**516-2 to 12 Research in Prints.**

**520-2 to 12 Seminar in Pottery.**

**526-2 to 12 Research in Pottery.**

**530-2 to 12 Seminar in Metal Construction.**

**536-2 to 12 Research in Metal Construction.**

**540-2 to 12 Seminar in Weaving.**

**546-2 to 12 Research in Weaving.**

**560-2 to 12 Seminar in Art Education.**

**566-2 to 12 Research in Art Education.**

**571-2 to 5 Readings in Art History.**

**573-3 to 12 Problems in Art History.**

**599-5 to 9 Thesis.**

## Botany

**300-3 Morphology of Non-Vascular Plants.** Introduction to the structure, development, and relationships of the algae, fungi, and bryophytes. Prerequisite: GSA 201b.

**301-3 Morphology of Vascular Plants.** Introduction to the structure, development, and relationships of the fern-allies, ferns, gymnosperms, and angiosperms. Prerequisite: GSA 201b. Recommended: Botany 300.

**GSA 303-3 Ferns, Trees, and Wild Flowers: The Pleasure of Recognition.**

**308-5 Taxonomy of Cultivated Plants.** A study of the classification of woody and herbaceous cultivated plants, both exotic and native. Prerequisite: consent of instructor.

**315-4 Plant Genetics.** (Same as Plant Industries 315.) A general course involving principles of evolution and genetics of plants. Prerequisite: secondary concentration in agriculture, botany, or zoology.

**320-5 Elements of Plant Physiology.** A study of the functions of plants and their relation to the various organs. Three lecture and 4 laboratory hours per week. Prerequisite: GSA 201b; chemistry 350 or a secondary concentration in chemistry.

**321-3 to 5 Elementary Botanical Microtechnique.** Methods of preservation and preparation of plant materials for examination by the light microscope. One lecture and 4 laboratory hours per week. Prerequisite: GSA 201b.

**GSA 340-3 Ecology.**

**341-3 Autecology.** An introduction to plant life processes and life form in relation to the factors of the environment. Prerequisite: 320, GSA 340, or consent of instructor. Field and laboratory expenses \$5.

**GSA 345-3 Economic Botany.**

**390-2 to 4 Readings in Botany.** A course of individually assigned readings in classical botanical literature; both oral and written reports required; open only to undergraduate students. Prerequisites: concentration in botany, consent of instructor.

**391-2 to 5 Special Problems in Botany.** Individual laboratory or field work under supervised direction. Both written and oral discussions required. Prerequisite: concentration in botany, consent of department or division.

**400-5 Plant Anatomy.** An introduction to cell division, development, and



maturation of the structures of the vascular plants. Laboratory. Cost \$5. Prerequisites: 300, 301.

**404–5 The Algae.** Structure, development, and relationships of the algae. Laboratory and some field work. Prerequisite: 300.

**405–5 Mycology.** Structure, development, and relationships of the fungi. Problems of economic and scientific interest stressed. Laboratory. Prerequisite: 300.

**406–5 Industrial Mycology.** A consideration of the myriad ways in which fungi impinge on man's affairs, with special emphasis upon their various industrial application—real and potential. Three lectures and 4 laboratory hours per week. Prerequisite: 405 or consent of instructor.

**411–4 The Bryophytes and Pteridophytes.** Structure, development, and relationships of the liverworts and mosses, and the ferns and fern allies. Laboratory. Prerequisite: 301.

**412–4 The Spermatophytes.** Structure, development, and relationships of the gymnosperms and angiosperms. Laboratory. Prerequisites: 301, 313, or GSA 303.

**414–5 Paleobotany.** (Same as Geology 414). An introduction to the study of fossil plants emphasizing the major features of plant evolution and the applications of paleobotany to problems in the botanical and geological sciences. Lecture, laboratory, and field trips. Student cost about \$5. Prerequisite: 310 or 400 or consent of instructor.

**420–4 Physiology of Fungi.** A treatment of the physiological activities of fungi with particular stress upon (1) those aspects peculiar to the group by virtue of their being non chlorophyllous plants, and (2) exploration of the possible explanations of the parasitic vs. the saprophytic habit. Prerequisite: consent of instructor.

**425–15 (5,5,5) Advanced Plant Physiology.** (a) Physics of the plant, water relations, membrane phenomena, photobiology. (b) Covers the absorption, translocation, function and interaction of inorganic nutrient elements in green plants with application to forest, agronomic, and horticultural species. (c) Chemistry of the plant; anabolic and catabolic processes, photosynthesis, respiration, chemosynthesis. Prerequisites: 320, Chemistry 350, or a secondary concentration in chemistry.

**428–3 Plant Nutrition.** The physiological importance of carbon, nitrogen, and phosphorus-containing compounds is stressed. Prerequisites: organic chemistry, secondary concentration in botany or agriculture.

**440–4 Ecology of Grasses and Grasslands.** Structure, analysis, and dynamics of grassland communities; structure and growth of individual species. Field and laboratory work costs about \$5. Prerequisite: GSA 340 or consent of instructor.

**445–5 Ecology of Forests and Arable Lands.** Forest areas in North America. Developmental and structural analysis of forest types. Autecology of important species. Field trips, approximate cost \$10. Prerequisite: GSA 340.

**449–3 Elements of Taxonomy.** Principles of taxonomy including historical sketch, phyletic concepts, biosystematics, classical and experimental methods. Lecture. Laboratory. Prerequisite: 313 or equivalent, or consent of the instructor.

**450–3 Plant Geography.** World distribution of plants related to environmental, floristic, and historical factors. Prerequisites: consent of instructor.

**451–4 Introduction to Floristics.** Principles involved and methods used in the analysis of the flora of an era. Laboratory and field work. Student cost about \$10. Prerequisite: Botany 313, or GSA 303.

**456–5 Plant Pathology.** (Same as Plant Industries 455.) A study of plant diseases caused by fungi, bacteria, and viruses. Special attention given diseases of southern Illinois plants. Laboratory and field trips. Lab charge. Prerequisite: consent of instructor.

**457–4 Forest Pathology.** Nature and control of forest and shade tree diseases. A study of tree diseases in forests, parks, streets, and nurseries. Fungi important in decay and stain of timber and its products are included. Lab charge. Prerequisite: consent of instructor or 456.

**470–4 Methods of Teaching High School Biology.** Methods, objectives, types of courses taught in secondary school biology. Laboratory and field trips. Prerequisite: concentration in botany or zoology.

**480–4 Classic Principles of Botany.** Theories, principles, and developments in the various divisions of the plant sciences. Prerequisites: GSA 201c, or consent of instructor.

- 501-4 Plant Biology for High School Teachers.
- 502-2 Recent Developments in Biological Sciences.
- 503-15 (5,5,5) Advanced Angiosperm Taxonomy.
- 507-8 BSCS-High School Biology.
- 510-4 Bio-Ecology.
- 522-5 Advanced Microtechnique.
- 525-5 Cytology.
- 526-5 Cytogenetics.
- 533-3 to 4 Growth and Development in Plants.
- 535-3 Energetics of Aquatic Ecosystem.
- 542-3 Biosystematics.
- 543-5 Experimental Ecology.
- 551-4 The Natural Vegetation of the Mississippi Basin, Upland.
- 552-4 Mississippi Flora, Aquatic.
- 555-12 (4,4,4) Advanced Plant Pathology.
- 570-2 to 5 Readings.
- 580-1 to 4 Seminar.
- 581-4 Advanced Systematics.
- 590-2 to 4 Introduction to Research.
- 591-3 to 9 Research.
- 599-3 to 9 Thesis.
- 600-1 to 36 Dissertation.

### Chemistry

- 110-4 General and Inorganic Chemistry. A brief introduction to the structure of the atom and chemical bonding; acids, bases, salts, and pH; and a study of the properties and reactions of some of the more common elements. Three lecture and 3 laboratory hours per week. Not applicable to a concentration or to a secondary concentration in chemistry. No prerequisite.
- 111-15 (5,5,5) General Chemistry and Qualitative Analysis. For students requiring at least 10 hours of chemistry including pre-professional students (medicine, etc.) and those with a concentration in chemistry or other scientific or technological areas. (a) Beginning course for students with less than one year of high school chemistry. (b) Beginning course for those students who have had a year or more of high school chemistry and the second course for those who complete 111a; the course covers general principles and the nonmetals. (c) Prerequisite: 111b. The course covers the metals, ionic equilibria and qualitative analysis of cations and anions.
- 235-5 General Quantitative Analysis. Introduction to theories and methods of volumetric and gravimetric techniques. Three lecture and 6 laboratory hours per week. Prerequisite: 111c.
- 240-4 Organic Chemistry. A survey course not open to those concentrating in chemistry. An introduction to aliphatic and aromatic compounds with emphasis on those of biological importance. Three lecture and 3 laboratory hours per week. Prerequisite: 110 or 111b.
- 305-9 (4,5) Organic Chemistry, Preprofessional. For secondary concentration in chemistry and preprofessional students. Lecture and laboratory. Must be taken in a,b sequence. Prerequisite: 111c.
- 341-15 (5,5,5) Organic Chemistry. Three lecture and 6 laboratory hours per week. Must be taken in a,b,c sequence. Prerequisite: 111c.
- 350-4 Biological Chemistry. A brief introduction to metabolism, nutrition, and the chemistry of the important biological processes in plants and animals. Three lecture and 3 laboratory hours per week. Prerequisite: 240 or 305b or 341c.
- 375-0 to 2 Senior Seminar. For seniors with a concentration in chemistry.
- 411-4 Intermediate Inorganic Chemistry. Modern inorganic chemistry involving atomic structure, chemical bonds, complexes, and chelate structures; with emphasis on physical chemical principles. Four lecture hours per week. Prerequisite: 461b.
- 412-3 Inorganic Preparations. A study of several important inorganic syntheses. One lecture and 6 laboratory hours per week. Prerequisites: 235, 305b or 341c.
- 432-8 (4,4) Instrumental Analytical Measurements. Theory and practice of instrumental analytical measurements, including spectrophotometric, electro-



analytical, and chromatographic methods. Two lecture and 6 laboratory hours per week. May be taken in either sequence. Prerequisite: 461b.

**433-3 Intermediate Quantitative Analysis.** A study of the analysis of complex materials, with emphasis on separations, functional group analysis, and instrumental applications. Two lecture and 3 laboratory hours per week. Prerequisites: 432a or b and 461c.

**438-3 Review of Analytical Chemistry.** A discussion, in depth of the principles of chemical equilibrium, analytical separations, and common chemical and physical measurements. Three lecture hours per week. Prerequisite: graduate standing and consent of instructor.

**444-3 Intermediate Organic Chemistry.** A review of fundamental principles and an introduction to advanced topics. Three lecture hours per week. Prerequisite: 341c.

**446-4 Qualitative Organic Analysis.** A systematic study of the separation and identification of organic compounds. Two lecture and 6 laboratory hours per week. Prerequisite: 305b or 341c.

**447-3 Quantitative Organic Chemistry.** The determination of functional groups and elements commonly found in organic compounds by selected methods of analysis; illustration of general methods of procedure in the field of quantitative organic chemistry. One lecture and 6 laboratory hours per week. Prerequisite: 305b or 341c.

**451-9 to 11 (3, 3 to 4, 3 to 4) Biochemistry.** (a) Chemistry and function of amino acids, proteins, and carbohydrates. (b) Carbohydrate metabolism; lipid chemistry, function, and metabolism; energy relationships. (c) Amino acid metabolism; enzyme kinetics; nucleic acid function and biosynthesis. Three lecture hours per week; 3 hour laboratory optional. Prerequisite: 235, 305b or 341c. Must be taken in a, b, c sequence and each is a prerequisite for the next course in the sequence.

**460-5 Theoretical Chemistry.** Traditional aspects of physical chemistry without the requirement of calculus. Three lecture and 4 laboratory hours per week. Prerequisites: 235, 305b or 341c, and one year of physics or consent of instructor.

**461-12 (4,4,4) Physical Chemistry.** A fundamental course in physical chemistry composed of a sequence of a, b, and c. Three lecture and 3 laboratory hours per week. Prerequisites: 235 (concurrent), 341c, 12 hours of physics, and one year of calculus. Must be taken in a, b, c sequence, and each is a prerequisite for the next course in the sequence.

**464-3 Intermediate Physical Chemistry.** Intermediate between the first year of undergraduate physical chemistry and advanced physical chemistry. Gives a broad foundation in physical chemistry. Three lectures per week. Prerequisite: 461c.

**471-3 Industrial Chemistry.** A survey of modern industrial chemistry and an introduction to chemical research processes. Three lecture hours per week. Prerequisite: 305b or 341c.

**472-12 (4,4,4) X-Ray Crystallography.** (Same as Applied Science 401-12.) (a) Introductory crystallography. (b) X-ray diffraction techniques. (c) Crystal structure analysis. Prerequisite: 461b.

**490-2 Chemical Literature.** A description of the various sources of chemical information and the techniques for carrying out literature searches. Two lecture hours per week. Prerequisites: 235, 305b or 341c, reading knowledge of German or consent of instructor.

**496-1 to 9 Chemical Problems.** Investigation of relatively simple problems under the direction of a staff member. Prerequisites: senior standing, concentration in chemistry with 4.0 grade point average, and consent of chairman.

**511-9 (3,3,3) Advanced Inorganic Chemistry.**

**517-3 Laboratory Techniques in Inorganic Chemistry.**

**519-2 to 30 (2 to 6 per quarter) Advanced Topics in Inorganic Chemistry.**

**531-3 Theory of Quantitative Analysis.**

**532-3 Instrumental Methods of Analysis.**

**539-2 to 30 (2 to 6 per quarter) Advanced Topics in Analytical Chemistry.**

**541-3 Advanced Organic Chemistry.**

**542-3 Advanced Organic Chemistry.**

**543-3 Advanced Organic Chemistry.**

**547-3 to 6 Advanced Laboratory Preparations in Organic Chemistry.**

**549-2 to 30 (2 to 6 hours per quarter) Advanced Topics in Organic Chemistry.**

**551-3 Advanced Biochemistry. (Protein Biosynthesis)**



- 552-3 Advanced Biochemistry. (Carbohydrate Chemistry)
- 553-3 Advanced Biochemistry. (Plant Biochemistry)
- 554-3 Biochemical Mechanisms.
- 555-3 Enzymes.
- 559-2 to 30 (2 to 6 hours per quarter) Advanced Topics in Biochemistry.
- 561-3 Chemical Thermodynamics.
- 562-3 Atomic and Molecular Structure.
- 563-3 Chemical Kinetics.
- 569-2 to 30 (2 to 6 hours per quarter) Advanced Topics in Physical Chemistry.
- 575 1 to 3 Graduate Seminar.
- 594-2 to 15 (2 to 6 hours per quarter) Special Readings in Chemistry.
- 595-0 to 9 Advanced Seminar in Chemistry.
- 596-3 to 20 Advanced Chemical Problems.
- 597-3 to 40 Research and Thesis.
- 598-3 to 48 Research-Doctoral.
- 600-3 to 48 Dissertation-Doctoral.

### Clothing and Textiles

- 127-4 (2,2) Clothing Selection and Construction. (a) Clothing selection and care. Study of clothing in relation to fabric composition, fashion emphases, art principles, suitability and cost. (b) Clothing selection laboratory. Use and alteration of patterns, construction of garments using fabrics made of different fibers (emphases on fitting and on construction techniques).
- 131-3 Applied Design. Theory of design. Judging decorative and structural design of objects. Principles and elements of design applied to our visual environment-homes, furnishings, buildings-and the person. Supplementary laboratory experiences with emphasis on color.
- 135-3 Textiles. Selection of textiles from consumer standpoint. Characteristics of commonly used fibers and fabrics; textile information as a tool in the selection and care of household textiles and clothing.
- 145-1 to 4 Three Dimensional Arrangement. Principles of selection and arrangement of designs including flowers, foliage and other elements from nature for use in homes and other interiors.
- 231-3 Applied Design. The study of design of products used in interiors of homes and in clothing and textiles. Laboratory experiences in applying the principles and elements of design to two- and three-dimensional studies related to these. Prerequisite: 131, equivalent, or consent of instructor.
- 233-3 Pattern Designing and Clothing Construction. Principles of flat pattern design, pattern manipulation, and fitting. The making of dress patterns from master patterns. Construction of dresses using custom finishes. Field trip. Prerequisites: 127, 131, 135, or consent of instructor.
- 300-2 to 4 Display. The application of design principles in windows, cases, department displays. Laboratory problems to provide experience in planning, execution, and evaluation of display. Prerequisite: 131, equivalent, or consent of instructor.
- 322-3 Advanced Textiles. A study of textile testing, fabric analysis, textiles legislation. Prerequisite: 135, Chemistry 110 and 24D, or consent of instructor.
- 327-3 Home Furnishings and Interiors. Principles and elements of design related to selection and arrangement of furniture and the use of fabrics, accessories and other media utilized in furnishing homes and their interiors. Prerequisite: 131, equivalent, or consent of instructor.
- 329-3 Fashion. A study of economic, psychological, social, and aesthetic factors in fashion which affect the individual and family. Exploration into the fashion industry and opportunities in the field of fashion. Offered alternate years.
- 331-3 Applied Design. Laboratory experiences in applying the principles and elements of art to textile designing. Linoleum block printing, silk screen print, contemporary embroidery, batik, tie-dye, and others. Prerequisite: 231, equivalent, or consent of instructor. Offered alternate years.
- 334-3 Costume Design. The development of original dress design and adaptation from period costume and other sources, using various media. Prerequisite: 127a, 131. Offered alternate years.
- 339-3 Clothing Economics. Factors of production, distribution, and consumption which influence economics of clothing. Offered alternate years.



**360—4 Tailoring and Clothing Construction.** Fundamental construction processes reviewed and basic principles of tailoring applied in the construction of a suit or coat and a dress. Prerequisite: 233.

**364—3 Draping and Construction.** Principles of design applied to draping of fabric on dress form. Emphasis on interpretation of design in relation to different fabrics and figures. Construction of one draped garment. Prerequisite: 233. Offered alternate years.

**371—6 Field Experience.** Opportunity for supervised learning experiences in the chosen area.

**380—4 Furniture and Interiors.** A study of furniture in relation to interiors from antiquity through the 18th century. Field trip.

**381—4 The Modern Movement in Interior Design.** A study of furniture in relation to interiors from the 18th century to the present. Field trip.

**382—4 The Decorative Arts.** A study of ceramics, textiles, glass, paper, plastics, lighting and lighting fixtures, metals and hardware, selecting and hanging pictures, window treatments, floor coverings, wall treatments, and backgrounds considered in relation to problems in interior decoration. Field trip.

**390—5 Interior Design Fundamentals.** Analysis and practices of interior decoration with emphasis on present-day problems and solutions. Field trip. Prerequisite: 131, 231 or consent of instructor.

**391—15 (5,5,5) Advanced Interior Design.** The major problems and trends in interior design. (a) residential interiors, (b) commercial interiors for restaurants, hotels, and motels, (c) commercial interiors for transportation systems, industrial and governmental buildings. Lecture and laboratory. Field trips. Must be taken in a,b,c sequence. Prerequisite: 390 or consent of instructor.

**394—4 Professional Practice.** Practical organization and methods of conducting an interior decorating business; production, management, customer relationships, and professional ethics. Prerequisite: 390 or consent of instructor.

**395—2 to 8 Special Problems.** Specific problems in clothing, textiles, applied design, housing, home furnishings, or interiors. Prerequisite: consent of instructor.

**423—4 Advanced Family Housing.** (See Home and Family 423.)

**431—4 Advanced Applied Design.** Research problems in experimentation with materials in textile design, linoleum block printing, stencilling, contemporary embroidery, silk-screen printing, etc. Prerequisite: 231 or consent of instructor.

**432—2 to 8 Workshop.** Designed to aid leaders in the field with current problems. Discussion, reports, lectures, and other methods of analyzing and working on solutions to problems. Emphasis for the workshop to be stated in the announcement of the course. Prerequisite: consent of chairman.

**433—4 Advanced Pattern Designing.** Experimentation in the application of flat pattern design principles to the making of patterns for garments of various designs. Emphasis upon suitability of patterns for specific fabrics. Construction of garment as final step in experimentation. Prerequisite: 233 or consent of instructor.

**434—4 History of Costume.** The history of costume from prehistoric times to the present. Social, economic, and aesthetic developments that influenced its design.

**461—4 Problems in Fitting and Pattern Alterations.** Principles of fitting and pattern alterations as related to various figure types and special figure problems. Application made by fitting and constructing a garment. Prerequisites: 127, 233 or equivalent.

**470—3 Interior Design Seminar.** A study and appraisal of noted interiors and architecture as interpreted in selected buildings and by selected designers. Field trips. Prerequisite: consent of instructor.

**473—4 Advanced Tailoring.** The student will tailor one garment for herself. Timesaving methods, high-quality construction details, and professional finishes stressed. Prerequisite: 360 or equivalent. Offered on demand.

**474—4 Advanced Textiles.** The physical and chemical analysis of textiles. Problems dealing with economic and industrial developments, standards, labeling, and legislation. Current literature of developments within the field. Prerequisites: 322, Chemistry 110 and 240 or consent of instructor.

**481—2 to 6 Readings.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman.

**528—4 Recent Developments in Clothing and Textiles.**

**570—4 Clothing and Textiles Seminar.**

**571—4 Recent Research.**

- 572–2 to 8 **Special Problems.**  
 582–4 **Foundations of Fashion.**  
 599–5 to 9 **Thesis.**  
 600–1 to 48 **Dissertation.**

### Design

- 100–5 to 15 **Design Fundamentals.** Three-quarter sequence. Comprehensive workshop and lecture course in design fundamentals. Exploration of two- and three-dimensional design principles using various media and materials.
- 200–2 to 6 **Materials and Basic Techniques.** Three-quarter sequence. Laboratory exploration of two- and three-dimensional materials utilized in design process. No more than 2 hours per quarter. Prerequisite: 100.
- 215–4 to 12 **Basic Product-Shelter Design.** Three-quarter sequence. Development of an analytical approach to the solution of product and shelter problems, using lecture, text, and laboratory methods. Prerequisite: 100.
- 275–4 to 12 **Basic Visual Design.** Three-quarter sequence. Development of an analytical approach to the solution of visual problems, using lecture, text, and laboratory methods. Prerequisite: 100.
- 300–2 to 6 **Materials and Basic Techniques.** Three-quarter sequence. A continuation of 200. Prerequisite: 200.
- 345–4 to 12 **Design Studio.** Special projects in two, and three-dimensional experimental structures.
- 366–5 to 15 **Product-Shelter Design.** Three-quarter sequence. Development of three-dimensional design projects of community scope. Prerequisites: 200, 215, 275.
- 375–5 to 15 **Visual Design.** Development of design projects exploiting various communications media. Prerequisites: 200, 215, 275.
- 390–2 **Principles of Design.** Critical survey of the theory and practice of contemporary design.
- 400–0 to 2 **Materials and Basic Techniques.**
- 465f–5 to 15–**Research in Product-Shelter Design.**
- 465g–5 to 15 **Research in Visual Design.**
- 490f–2 to 12 **Studio in Product-Shelter Design.**
- 490g–2 to 12 **Studio in Visual Design.**
- 520–4 to 10 **Educational Tool Systems.**
- 530–4 to 12 **Studies in the Industrial Process.**
- 535–4 to 12 **Research in Product Design.**
- 540–4 to 12 **Studies in Communications Design.**
- 545–4 to 12 **Research in Communications Design.**
- 550–2 to 16 **Field Study in Design.**
- 560–4 to 12 **Environmental Control.**
- 570–4 to 12 **Design Science Exploration.**
- 575–4 **World Ecological Studies.**
- 576–4 to 8 **Structural Evolution.**
- 599–3 to 9 **Thesis.**

### Economics

- 214–3 **Economics (Macro).** Explores more fully some of the topics introduced in GSB 211a and brings in others such as: national income; money & banking; economic fluctuations; government fiscal policy; economic growth. Prerequisite: GSB 211a.
- 215–3 **Economics (Micro).** Explores more fully some of the topics introduced in GSB 211a and brings in others such as: supply, demand, prices, theory of the firm, labor, rent, interest, profits. Prerequisite: GSB 211a.
- 301–1 to 6 **Economic Readings.** Readings in books and periodicals in a defined field, under direction of one or more staff members. Periodic written and oral reports. Prerequisite: consent of chairman.
- 303–4 **Introduction to Economics–MBA.** Survey of economic principles including national income, money and banking, fiscal policy, economic growth, prices, theory of the firm, labor, rent, interest, and profits. Restricted to MBA students.
- 304–4 **Introduction to Statistics–MBA.** A survey of statistics. Specifically,



hypotheses testing and confidence interval determination. Three hours lecture; 2 hours laboratory. Restricted to MBA students.

**308-4 Economics and Business Statistics I.** Three hours lecture; 2 hours laboratory. Prerequisite: GSD 110.

**310-4 Labor Problems.** Prerequisites: 214, 215.

**GSB 311-3 Economic Development of the United States.** Prerequisite: GSB 101c or 211c.

**GSB 312-3 Comparative Economic Systems.** Prerequisite: GSB 211a.

**GSB 313-3 Economics of War and Peace.**

**315-4 Money and Banking I.** Prerequisite: 206 or 214.

**330-4 Public Finance.** Prerequisite: 214 or GSB 211c.

**GSB 333-3 Seminar in Problems of War and Peace.**

**408-4 Economic and Business Statistics II.** Techniques for making decisions when the economic conditions are not known with certainty. Three hours lecture; 2 hours laboratory. Prerequisite: 307 or GSD 110, or GSD 108c, or GSD 114c, or consent of instructor.

**411-4 Collective Bargaining and Dispute Settlement.** Nature, issues, procedures, economic effects. Prerequisite: 310 or consent of instructor.

**416-4 Money and Banking II.** Emphasis upon the Federal Reserve System and other banking systems. Prerequisite: 315 or consent of instructor.

**418-4 Economic History of Europe.** A survey of the economic growth of Europe with emphasis upon the development of European agriculture, industry, finance, and international trade since 1750. Prerequisites: 205 or GSB 211a, or consent of instructor.

**419-4 Latin American Economic Development.** A survey of the resource base of Latin American economic development with special reference to the problems of transition from an export-import to an integrated industrial economy; monetary policies; problems of economic planning. Prerequisites: 205 or GSB 211a.

**420-4 Recent Economic History of the United States.** Review and analysis of the chief characteristics, trends, and continuing problems of the economy of the United States in the 20th century. Prerequisites: 214, 215.

**422-4 Introduction to Economic Development.** An analysis of the preconditions, processes, and problems involved in economic development. Both the theory and policy relevant to development, with special emphasis upon the developing or emerging economies, are stressed. Prerequisites: 214, 215.

**429-4 International Economics.** Intensive treatment of the principles of international economics with special emphasis on the classical and modern theories of international trade. Income effects. Balance of payments adjustments. Prerequisites: 214 and 215, or consent of instructor.

**430-4 Regional Economy.** Natural economic regions, governmental action (as in the T.V.A.), local applications. Prerequisites: 214 and 215.

**431-3 Public Finance II.** State and local. Prerequisite: 330 or consent of the instructor.

**433-4 Inflation, Growth, and Stability.** National income theory with emphasis on (a) the influence of government budgetary programs on the level of national income, employment, growth, and the price level, and (b) the institutional difficulties of formulating and executing a Federal budget program. Prerequisite: 214 or consent of instructor. A student may not receive credit for both 433 and 441.

**436-3 Government and Labor.** (Same as Government 436.) A study of labor relations and legislation considering both constitutional and economic aspects. Prerequisite: 215, or consent of instructor.

**440-4 Intermediate Micro Theory.** A more intensive treatment of price and income theory. Prerequisites: 205 and 206, or 215, or consent of instructor.

**441-4 Intermediate Macro Theory.** Basic analytical concepts of the modern theory of aggregative income determination. Prerequisites: 214 or consent of instructor.

**450-6 (3,3) History of Economic Thought.** The development of economic thought; (a) ancients to 1850; (b) 1850 to present. Must be taken in a,b, sequence. Prerequisites: 214 and 215, or consent of instructor.

**460-4 Russian Economy.** Development of Russian trade, agriculture, industry, government, finance, and standards of living in successive periods in relation to the historical, geographic, economic, and ideological background. Prerequisite: GSB 211a, or consent of instructor.

**461-4 Comparative Economic Development in Asia.** A comparison of the

economies of Japan, India, and China within the framework of emerging economic theory of developing economies. Prerequisite: GSB 211a, or consent of instructor.

**462-4 Economic Development of the Middle East.** Economic structure of the countries constituting the Middle East; economic, political, social, and cultural forces influencing economic development. Prerequisites: 214, 215.

**465-4 Mathematical Economics I.** A systematic survey of mathematical economic theory. Conditions of static equilibrium (including stability conditions), optimizing behavior under constraints, and dynamic economic models. Prerequisite: 440 or consent of instructor.

**467-4 Econometrics I.** Introduction to resource allocation under uncertainty. Probabilistic economic models, theory of games and economic choices, and stochastic economic processes. Prerequisite: consent of instructor.

**471-4 Land Resource Economics.** (Same as Forestry 471 and Agricultural Industries 471.) The use of land as an economic variable in production of goods and services; land market; group versus individual conflicts; elementary land resources planning techniques. Prerequisite: 440, or 441, or Agricultural Industries 350, or Forestry 470.

**472-4 Dynamic Economics: Fluctuations and Growth.** A study of the causal factors which produce fluctuations in economic activity and/or economic growth. An identification of the factors which affect the length of the cycle, its amplitude, and the stability of equilibrium. An examination of the theories and issues of economic growth. Prerequisite: 441 or consent of instructor.

**481-4 Comparative Economic Systems.** Capitalism, socialism, fascism, and other forms of the economy. Prerequisite: 214 and 215, or consent of instructor.

**490-4 Workshop in Economic Education.** (Same as Elementary or Secondary Education 490.) Designed to assist elementary and secondary school teachers in promoting economic understanding in the minds of their students through the translation of economic principles and problems into classroom teaching materials.

**500-4 to 8 Economics Seminar.**

**501-1 to 5 Economics Readings.**

**502-1 to 6 Readings in Resource Economics.**

**512-4 Labor Economics.**

**517-4 Monetary Theory and Policy.**

**520-8 (4,4) Economic Development Theory and Policy.**

**526-4 Managerial Economics.**

**530-4 Foreign Trade and Finance.**

**531-4 Seminar in International Economics.**

**533-4 Public Finance Theory and Practice.**

**541-4 National Income Theory.**

**542-4 Price Theory.**

**543-4 Seminar in Economic Policy.**

**552-4 Seminar in Economic Thought.**

**562-4 Seminar in Economic Systems.**

**566-4 Mathematical Economics II.**

**575-4 Economic Regulation.**

**581-4 Economics of Welfare.**

**582-0 to 4 Economic Behavior.**

**583-4 Methodological Foundations of Economics.**

**599-2 to 9 Thesis.**

**600-3 to 48 Doctoral Dissertation.**

### Educational Administration and Supervision

Students who wish to take 420, 424, 434, 456, 460, 500, 527, 533, 534a,b, 535, 539 and 556 need approval by the Department of Educational Administration and Supervision prior to program approval.

**GSB 331-3 The American Educational Systems.**

**355-4 Philosophy of Education.** (Same as Philosophy 355.) The philosophical principles of education and the educational theories and agencies involved in the work of the schools.

**420-4 Legal Basis of American Education.** Particular emphasis is placed on common-law principles.



- 424-4 School Administration.** Designed primarily for those who look forward to positions as supervisors, principals, or superintendents.
- 431-4 History of Education in the United States.** An historical study of the problems of American Education which have relevance to contemporary education.
- 432-4 Education and Social Forces.** Analysis and classification of propaganda. Designed to show how public opinion is formed by a use of current materials from the different channels of communications. Differences between propaganda and indoctrination.
- 456-4 School Supervision.** The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching.
- 460-4 Curriculum.** Modern practices and procedures in curriculum development, with attention to the professional, social, economic, and other major factors in curriculum planning.
- 485-4 to 9 Educational Utilization of Community Resources.** A workshop providing an opportunity for teachers to acquire a detailed knowledge of community resources, construct teaching units utilizing these resources and assemble files of resource materials dealing with economic and social problems of the community.
- 500-4 Research Methods.**
- 501-12 (4,4,4) Seminar in Educational Administration.**
- 502-4 Seminar in Comparative Education.**
- 502S-4 Seminar in Comparative Education: Soviet Russia.**
- 503-0 to 4 Seminar in Philosophy of Education.**
- 504-4 Seminar in History of European Education.**
- 506-4 Seminar: Curriculum in Relation to American Culture.**
- 507-12 (4,4,4) The Twentieth Century and Education.**
- 508-8 (4,4) Interdisciplinary Seminar in Education Administration.**
- 511-12 (4,4,4) Internship Practicum.**
- 512-3 Workshop in Adult Education.**
- 520-4 Illinois School Law.**
- 527-4 to 6 Administrative Problems of Small Schools.**
- 533-4 School Buildings.**
- 534a-4 School Finance.**
- 534b-4 School Business Administration.**
- 535-4 Research in Problems of School Administration.**
- 536a-4 Administrator's Workshop.**
- 539-4 Community Development Through the School.**
- 554-4 Contrasting Philosophies of Education.**
- 556-4 Seminar in Educational Supervision.**
- 563-4 Workshop in School Public Relations.**
- 564-4 High School Principalship.**
- 575-1 to 4 Individual Research.** (Selected areas with 1 to 4 hours in each.)
- 576-1 to 4 Readings in Administration and Supervision.** (Selected areas with 1 to 4 hours in each.)
- 589-2 to 12 General Graduate Seminar.**
- 591-2 Seminar-Social and Philosophical Foundations.**
- 592-4 Doctoral Seminar in Cultural Foundations of Education.**
- 596-5 to 9 Independent Investigation.**
- 597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis.**
- 600-1 to 48 Dissertation.**

### Elementary Education

- 000-0 Reading and Study Techniques.** A service course to aid students in improving reading and study skills. Time schedules, general principles of effective study, improving reading, making notes, etc.
- 100-3 Introduction to Elementary Education.** A thorough investigation of the factors which are involved in teaching in the elementary school.
- 101-2 Developing Reading and Learning Skills.** Designed to increase reading and study efficiency. Areas covered include speed, comprehension, vocabulary, study skills, (concentration, note-taking, test-taking, time-scheduling, etc.). Open to all students.



**203-3 Understanding the Elementary School Child.** Concepts needed to understand the child in the elementary school situation. Two hours lecture and two hours observation. Prerequisite: GSB 201c.

**309-3 Kindergarten-Primary Social Studies Methods.** The objectives and methods of teaching social studies at the kindergarten-primary level, culminating in the planning of a unit of work. Prerequisite: 316.

**314-4 Elementary School Methods.** The fundamental principles of education, the interpretation of current educational theory and practice, the processes of teaching and learning involved in elementary education. Prerequisite: Guidance 305.

**316-4 Kindergarten-Primary Methods and Curriculum.** Philosophy and principles underlying the teaching of four-to-eight-year-olds. Emphasis upon organization, equipment, materials and methods for promoting growth of young children. Prerequisite: Guidance 305.

**337-4 Reading in the Elementary Schools.** The principles of reading, factors that condition reading, together with grade placement of aims and materials; diagnostic and remedial treatment. Prerequisite: 314.

**350-4 to 16 Kindergarten-Primary Student Teaching.**

**351-4 to 16 Elementary Student Teaching.**

**375-2 to 3 Readings in Elementary Education.**

**401-2 to 4 Problems in Public School Reading.** Requirements: attendance at all sessions of a reading conference; preparation of a paper showing practical applications of theory to the student's own teaching situation. Summer.

**402-4 Aerospace Education Workshop.** (See Secondary Education 402.)

**410-4 Improvement of Instruction in Arithmetic in Kindergarten-Primary Grades.** Recent findings and current practices in building a basis for quantitative thinking in early childhood education. Special emphasis upon grade placement of content and of techniques to aid children in understanding of the number system.

**411-4 Seminar in Instruction.** To assist student teachers and in-service teachers in solving classroom problems. Involves clinical study and discussion of behavioral and learning situations, with special attention to the development of characteristics and needs of students.

**413-4 Children's Literature.** Emphasizes types of literature, analysis of literary qualities, selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Guidance 305.

**415-2 to 4 Improvement of Instruction in Arithmetic in the Elementary School.** Items to be taught, the grade placement of content, newer instructional practices and materials of instruction, and means of evaluating achievement. Prerequisite: consent of instructor.

**430-3 Workshop in Creative Writing in the Elementary School.** Techniques of encouraging creative writing in the elementary school.

**431-2 to 4 Education for the Disadvantaged Child.** An understanding of culturally disadvantaged children with emphasis on the nonurban poor. Discussion of necessary adjustments of school programs emphasizing early school admission, experimental background, self-concept, language development and learning style. Prerequisite: 337.

**433-4 Workshop in Kindergarten-Primary Education.** Meets needs of in-service teachers in such areas as curriculum adjustment, remedial teaching, child development, and early childhood education. No credit if student has had 333 or 390.

**435-4 to 8 Workshop in Elementary School Foreign Language Instruction.** Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages or education. Prerequisite: basic language credit.

**437-4 Problems in Reading.** Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisites: senior standing, 337. Not open to students having had 505.

**441-4 Teaching Elementary Science.** A workshop course for teachers of elementary school science.

**442-4 Science for the Elementary Teacher.** Study of content and methods of elementary school science.

**443-4 Workshop in Social Studies.** Material on critical areas of the world,



not commonly emphasized in elementary social studies. Areas considered; significant geographical concepts, Asia, Africa, Russia, and Eastern Europe. Outstanding specialists in social science present their specialties.

**465-4 Seminar in Psychology of Elementary School Subjects.** Psychological principles of learning applied to the mastery of materials used in elementary school subjects. Prerequisites: 314, Guidance 305.

**490-2 to 3 Workshop in Economic Education in Elementary Schools.** A study of newer programs stressing economic understandings of the social studies in the elementary school.

**503-9 NDEA Summer Institute in Reading.**

**505-4 Reading in Elementary School.**

**507-2 to 4 Readings in Reading.**

**509-4 to 8 Practicum in Reading.**

**510-4 to 8 Seminar: Problems in Reading.**

**514-4 Organization and Administration of Reading Programs.**

**515-4 Special Problems in the Teaching of Arithmetic in the Elementary School.**

**516-8 to 12 Internship in Reading.**

**517-2 to 4 Kindergarten-Primary Practicum.**

**518-2 Supervision of Student Teachers.**

**519-2 to 4 Readings in Research in Elementary Mathematics.**

**520-4 Diagnosis and Correction of Elementary Mathematics Disabilities.**

**521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.**

**525-4 Kindergarten-Primary Seminar.**

**537-4 Kindergarten-Primary Reading.**

**541-4 Selected Teaching Curriculum Problems in Elementary School Science.**

**542-3 to 4 Language Arts in the Elementary School.**

**543-4 Teaching the Social Studies in the Elementary School.**

**557-4 The Elementary Principialism.**

**558-3 to 4 Leadership in Elementary Education.**

**559-3 Workshop in Instructional Leadership.**

**560-4 Kindergarten-Primary Education.**

**561-4 The Elementary School Curriculum.**

**563-4 Organization of the Elementary School.**

**570-4 Seminar, Research in Elementary Education.**

**575-2 to 4 Individual Research. (Selected areas with 2 to 4 hours in each.)**

**596-5 to 9 Independent Investigation.**

**599-3 to 9 Thesis.**

**600-1 to 48 Dissertation.**

## Engineering

**222-3 Digital Computer Programming for Engineers.** Programming of digital computers in a problem-oriented language (FORTRAN). Problems solved will illustrate some of the elementary methods of numerical analysis. Prepares the student to use digital computers in later courses. Includes programming of a computational problem from inception to completion: formulation and analysis, flow charting, coding, check-out, documentation. Prerequisite: Mathematics 111b.

**260-9 (3,3,3) Analytical Mechanics.** (a) Principles of mechanics; force systems; statics of particles; statics of rigid bodies in two dimensions and three dimensions; equilibrium; analysis of structures; distributed forces; forces in beams and cables. Prerequisite: Mathematics 150b or concurrent enrollment. (b) Centroids and center of gravity; friction; moments of inertia; kinematics of particles; kinematics of rigid bodies; relative motion. Prerequisite: Engineering 260a. (c) Kinetics of particles; Newton's laws of motion (mass, force and acceleration); kinetics of rigid bodies; D'Alembert principle; work and energy; impulse and momentum. Prerequisite: Engineering 260b.

**300-9 (3,3,3) Thermodynamics.** (a) The study of fundamental energy concepts and the laws of thermodynamics, availability of energy, properties of gases, vapors and gas-vapor mixtures, flow and nonflow processes. (b) Engine cycles and applications to internal combustion engines, gas turbines, steam turbines, jet devices, air compressors and air engines. Combustion refrigeration and air conditioning. (c) Axiomatic thermodynamics, criteria for equilibrium; absolute temperature; Maxwell's relations; open systems; the phase



rule; systems of one and two components; idealized systems; equations of state; systems involving chemical and electrochemical equilibrium. Must be taken in a,b,c sequence. Prerequisite: Mathematics 252a.

**302-6 (3,3) Heat and Mass Transfer.** (a) Dimensional analysis and its application to the theory of heat transfer. Mathematical and graphical methods of analyzing problems in conduction, convection, and radiation. Particular attention to the applications of heat transfer principles used in various processes. (b) A study of the theory related to all types of heat power equipment. The design calculations for various components of heat power machines such as steam and gas turbines, air compressors, pumps, refrigeration, and air conditioning equipment. Must be taken in a,b, sequence. Prerequisite: 300a,b.

**305-12 (3,3,3,3) Architectural Engineering Design.** (a) An introduction to the profession of architecture; work illustrating basic architectural forms and their organization. (b) A study of architectural planning, composition, and sketching. (c) A study of the fundamentals of architectural design. (d) A study of architectural planning of contemporary architectural problems. Must be taken in a,b,c,d sequence. Prerequisite: 260-9.

**311-9 (3,3,3) Engineering Materials.** (a) Stress and strain in the elastic as well as the plastic states. Failure theories. Elastic and plastic torsion. Thick cylinders and rotating discs. Energy methods. Beams on elastic foundations. Introduction to plates and shells. Limit design. (b) Mechanics of continua for elastic, plastic, viscoelastic, and creeping materials, limit analysis, applications to brittle, ductile, and transitional modes of fracture, to creep, fatigue, friction and wear. Laboratory emphasizing student-planned projects. (c) Physical and chemical properties of all types of materials; influence of these properties on behavior of materials under various structural, magnetic, dielectric, heat, and other environmental conditions. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 260-9.

**313-6 (3,3,) Fluid Mechanics.** (a) A broad introduction to the concepts and principles of fluid statics, kinematics and dynamics using the continuum as a mathematical model. Differential and integral form of the basic law of conservation of mass, Newton's law of motion in the form of Euler's, Bernoulli's and the momentum equation; the basic law of conservation of energy. Laminar and turbulent pipe flow; open channel flow. Turbomachinery. Fluid property measurement. Prerequisite: 260-9. (b) Resistance to flow around submerged bodies, basic boundary layer theory. Dimensional analysis by means of the Buckingham Pi-theorem and the method of non-dimensionalizing the governing equations, dynamic similitude. Perfect gas equations, basic theories of compressible flow in short passages and pipes; shock waves. Inviscid flow concepts including the velocity potential. Must be taken in a,b sequence.

**321-9 (3,3,3) Physical Metallurgy.** (a) The elementary physics of metals, constitutional diagrams, equilibrium and non-equilibrium conditions. The properties of metals and alloys as related to structure. (b) A study of the internal structure, treatment, and properties of iron, plain carbon steel, and cast iron. (c) Properties of x-rays and x-ray diffraction; the structure of polycrystalline aggregates of alloys; precise lattice-parameter measurements; chemical analysis by x-rays; measurement of grain sizes; pole figures and orientation determinations; determination of phase diagrams with x-rays; superlattices; the structure of cold-worked metal and preferred orientations resulting from cold work and after annealing; orientations in castings and deposited films. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 311a.

**331-12 (4,4,4) Circuit and Field Theory.** (a) Explanation and application of circuit theory; measurement of basic electrical parameters; study of linear networks and sources of electrical energy; analysis of transients in reactive circuits. (b) Continuation of circuit theory; introduction to three-phase power systems; investigation of quadripole network theory. (c) Vector analysis of electromagnetic fields of simple geometry; study of various theorems and equations relating to electromagnetic field theory, with special emphasis on Maxwell's equations. Prerequisite: Mathematics 252b.

**333-9 (3,3,3) Electrical Energy Conversion.** (a) The principles and physical aspects of electromechanical energy conversion and the basic concepts of machine performance; analysis and performance of D.C. machines. (b) Basic theory of transformers, analysis of performance of synchronous and induction machines. (c) Analysis of performance of fractional-horsepower motors, control-type generators and self-synchronous machines, dynamics of electromechanically-coupled systems, magneto-hydrodynamics, and other energy



conversion methods. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 331a,b.

**334-9 (3,3,3) Microwave and Antenna Theory.** An advanced study of electromagnetic fields, a study of the modes of propagation of electromagnetic energy of short wave length through guided ducts and the radiation of this energy into space. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 331-12.

**344-9 (3,3,3) Structures.** (a) Analysis of statically determinate beams, trusses, arches, spaceframes, and cables. Deflection of structures. Introduction to statically indeterminate structures. (b) Methods of analysis of statically indeterminate structures. (c) Introduction to structural design. Economic and social factors. Advantages and disadvantages of various structural materials. Assumptions and limitations of design procedures. Must be taken in a,b,c sequence. Prerequisite: 311a.

**346-6 (3,3) Concepts of Energy Release.** (a) A study of various energy conversion principles. The theory and application of energy release to conventional devices. (b) Thermodynamics analysis of low temperature phenomena. Solar energy and the concepts of thermonuclear power. Must be taken in a,b sequence. Prerequisite: 300-9.

**350-6 (3,3) Analog and Digital Computer Design.** An introduction to the design of analog and digital computers. Subjects include: operational amplifiers, multiplying circuits, regulated power supplies, Boolean algebra, switching circuits, memory devices. Not a course in programming. Must be taken in a,b sequence. Prerequisites: 335, Mathematics 305a or Engineering 470a or concurrent enrollment.

**351-6 (3,3) Electromechanical Design.** Develops and makes use of the mechanical and electrical knowledge of the student in the synthesis of complete control systems, to train students for careers in creative automation. Must be taken in a,b sequence. Prerequisite: 435a.

**352-6 (3,3) Electronic Device Design.** (a) Helps students use the latest electronic devices in designing circuits and equipment. (b) The use of tunnel diodes, lasers, masers, traveling wave tubes in the design of equipment. Emphasis will be on total design concept. Laboratory. Must be taken in a,b sequence. Prerequisite: 435a,b.

**370-4 Theory of Stochastic Processes.** Concept of a stochastic process. Renewal theory. Markov processes with application to reliability of systems, queues, and other problems of engineering interest. Related statistical problems. Prerequisite: 300a,b.

**401-9 (3,3,3) Principles of Propulsion.** (a) The basic principles of propulsion dynamics. (b) The thermodynamics of fluid flow and application to propulsion engines. (c) An extensive treatment of the technological problems in the design of propulsion systems. Must be taken in a,b,c sequence. Prerequisite: 300-9.

**406-3 Introductory Wave Motion.** Wave motion in strings and bars. Fourier methods. Wave motion in fluids. Electromagnetic waves. Prerequisite: Mathematics 252b.

**412-9 (3,3,3) Engineering Practice.** (a) Written communication encountered in engineering organizations; correspondence, memoranda, technical papers, specifications, and reports. Lectures, conferences, and frequent written assignments are adapted to the individual needs of each student. (b) The law of contracts with enough emphasis on legal procedure to enable students to understand decided cases. The study of the legal material will be followed by practice in applying some of the principles. (c) Research methods.

**413-6 (3,3) Intermediate Mechanics of Fluids.** (a) Application of the basic laws of nature to the theory of fluids using the continuum approach. Kinematics of fluid motion using various coordinate systems. Dynamics of viscous fluid motion with some solutions to the fundamental system of equations. (b) Vorticity, stream functions and the velocity potential. Incompressible irrotational flow. The compressible flow equations and an introduction to the theory of homogeneous turbulence. Must be taken in a,b sequence. Prerequisite: 313a,b, Mathematics 305 or Engineering 470a.

**415-9 (3,3,3) Principles of Water Quality Control.** (a) Characteristics of water quality, both natural and man-made; relationship of quality to use; unit operations of water quality control for municipal and industrial use. (b) Characteristics of waste waters; fundamental concepts of biological and chemical processes for the treatment of sewage and industrial wastes; water quality



criteria in stream pollution control. (c) Application of physical, chemical and biological unit operations and unit processes to the functional design of treatment facilities for water, sewage and industrial wastes. Laboratory. Prerequisite: Chemistry 111c, consent of instructor.

**416-6 (3,3,3) Water Quality Control.** (a) Application of the principles of analytical, physical, and organic chemistry to the analysis and treatment of water, sewage, and industrial wastes. Laboratory. Prerequisite: Chemistry 111c, consent of instructor. (b) The ecology of streams, lakes, and other water resources; identification and control of microorganisms in water and wastes; basic principles of microbiology and biochemistry as related to stream pollution and water quality control. Laboratory. Prerequisite: Engineering 416a, consent of instructor.

**420-9 (3,3,3) Transport Phenomena.** (a) Mechanism of heat, mass and momentum transport on both molecular and continuum basis. Estimation of transport properties. Generalized equations of transport in one or three dimensional system. (b) Interphase transport in isothermal and nonisothermal systems. Unsteady state transport problems in multicomponent systems. Mechanism ratio analysis. Analogy of mass, heat and momentum transfer. (c) Macroscopic balances, diffusion operations, penetration theory, simultaneous mass and heat transfer, equilibrium operations. Prerequisite: Mathematics 252b.

**422-4 Operations Research and Mathematical Model Formulation.** Applications of digital computers to the mathematical modelling of physical systems with particular emphasis on the simulation and problem solving techniques of operations research. A critical study of "the scientific method" and its implications as an aid to the conduct of scientific research. Dynamic models of transportation, allocation, and replacement. Physical applications and computation techniques related to the theory of games. Introduction to "real-time" techniques. Prerequisites: 222 and Mathematics 111b or consent of instructor.

**423-3 Hybrid Computation.** The simultaneous use of the analog and the digital computer for the solution of engineering problems. Scaling of problems. Block diagrams and logic are stressed. Linear and nonlinear differential equations. Simulation as well as iterative analog computation are covered. Prerequisite: Engineering 222 or Mathematics 225 and Engineering 470a or concurrent enrollment.

**425-2 to 8 Practicum in Technology.** Experiences in the industrial applications of technological knowledge. Cooperative arrangements with selected corporations and professional organizations provide opportunity to study technical problems in the industrial environment under the direction of specialists. Prerequisite: 12 hours in technical subjects.

**430-2 to 8 Special Problems in Industry and Technology.** Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of instructor.

**435-9 (3,3,3) Electronics.** (a) An introduction to electronics for all students of engineering. A foundation for more advanced studies in electronics. (b,c) Electron-tube theory, amplifiers, modulation, vacuum tube and transistor circuits. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 331a,b.

**439-6 (3,3) Transient Analysis.** A study of electrical and mechanical networks by means of the Laplace Transform. Theoretical vibration problems in the real and complex time domain, as they apply to engineering will be discussed. Prerequisites: 335a,b, Mathematics 305b or Engineering 470b.

**441-3 Wave Motion.** Wave motion in solids. Seismic waves. Reflection and refraction. Dispersion. Examples. Prerequisite: Mathematics 252b.

**443-9 (3,3,3) Engineering Design.** Projects of a research design or development nature. The student will select a problem, develop the theory for a solution, check the theory experimentally, analyze the data, and compare the results. The project can be from one to three quarters in length. Laboratory. Must be taken in a,b,c sequence. Prerequisites: 300, 311, 331 (a,b).

**445-12 (3,3,3,3) Solid Mechanics.** (a) Triaxial stress fields. Strain-displacement relations in nonrectangular coordinates. Deviatoric stress and deviatoric strain. Mises and Prandtl-Reuss equations in plasticity. Yield conditions. (b) Voigt, Maxwell and Standard viscoelastic solids. Theory of equivalent elastic problems, Examples. (c) Equations of motion for free and forced motion of mechanical-electrical systems. Several degrees of freedom. Complex



variable methods. Translation and rotation. (d) Lagrangian equations. Damping. Energy methods. Numerical methods. Examples. Prerequisites: Engineering 311a,b, Mathematics 252b.

**446-9 (3,3,3) Energy Conversion.** (a) Modern power plant cycles, pumps, fans, and heat exchangers. (b) a detailed study of the design and operation of turbines. (c) The design of jet engines and other systems. Must be taken in a,b,c sequence. Prerequisite: 300-9.

**450-4 Fundamentals of Reactive Systems.** Chemical processes, stoichiometry, properties of gases, solution chemistry, modern techniques of analysis, surface chemistry. Nonideal systems, rates and mechanisms of industrial processes. Instrumentation and process control. Laboratory. Prerequisites: Chemistry 111b,c and one year of calculus or consent of instructor.

**459-4 Engineering Economy II.** An analytic approach to economic aspects of professional engineering practice. Fundamental techniques of economy studies including replacement theory, cost control, analysis of risk and uncertainty, income taxes, and methods and formulas employed by industry. Prerequisite: GSB 361 or consent of instructor.

**460-8 (4,4) Engineering Analysis for Decision Making.** (a) Introduction to fundamental concepts and theorems of engineering analysis with emphasis on the theory of linear, dynamic, and integer programming. Network analysis, inventory theory, simplex and revised simplex method, and dual theorem. Prerequisites: Mathematics 252b, GSB 361 or consent of instructor. (b) Introduction to advanced linear programming, nonlinear, probabilistic, and stochastic programming. Prerequisites: 460a, 370 or consent of instructor.

**461-6 (3,3) Energy Methods in Elasticity.** (a) Energy concepts in mechanics. Beam and rods. Trusses. Redundancy. Bents. Castigliano's principle. (b) Method of calculus of variations. Buckling theory. Elementary vibrations. Hamilton's principle. Equations of Lagrange and Hamilton. Prerequisites: 260-9, 311a.

**462-6 (3,3) Matrix Methods in Structural Analysis.** (a) Introduction to matrix algebra. Matrix force method. Stiffness matrix method. Matrix displacement method. Computer analysis of trusses and frames. Moment distribution. (b) Introduction to undamped and damped vibrations. State and transfer matrices in vibration analysis. Miscellaneous applications. Prerequisites: 260-9, 311a.

**463-6 (3,3) Introductory Instrumentation.** Strain gages, bolometers, diffraction gratings. Electromagnetic techniques. Chemical techniques. Spectroscopy. Photoelasticity. Signal sensing and data handling. Recording systems. Transducers. Prerequisites: Mathematics 252b, Engineering 413, 414, 435a.

**502-9 (3,3,3) Advanced Heat Transfer.**

**503-9 (3,3,3) Heating and Cooling Systems.**

**510-9 (3,3,3) Electromagnetic Fields.**

**511-6 (3,3) Quantum Electronics.**

**512-8 (4,4) Continuum Mechanics.**

**513-9 (3,3,3) Fluid Mechanics.**

**516-8 (4,4) Water Resources Development.**

**517-12 (4,4,4) Analysis and Design of Engineering Systems.**

**520-9 (3,3,3) Reaction Engineering and Rate Processes.**

**522-3 Advanced Topics in Operations Research.**

**530-6 (3,3) Separation Processes and Equilibrium Operations.**

**561-6 (3,3) Advanced Vibrations.**

**570-2 to 6 Special Investigations.**

**580-1 to 9 Seminar.**

**599-1 to 9 Thesis.**

## Engineering Technology

**260-9 (3,3,3) Analytical Mechanics.** (See Engineering 260).

**301-9 (3,3,3) Refrigeration and Air Conditioning.** (a) Discussion of refrigerating cycles. Refrigeration at more than one level. Operation and ratings of various types of compressors, evaporators, condensers, and automatic controls used in commercial refrigerating systems. Heat flow problems in condensers, evaporators, and cooling towers. (b) Control of temperature and humidity in buildings, or other large areas. Air handling equipment, duct systems, and air distribution within the space. Fundamental principles and



techniques for cooling and dehumidification for comfort. Equipment and control systems. (c) Physiological aspects of air conditioning. Air and water vapor mixtures, load estimates for heating, boilers, radiators, and heating systems. Complete and part air conditioning systems, including air handling equipment. Must be taken in a,b,c sequence. Prerequisite: Engineering 300a. **303-9 (3,3,3) Electronics Technology.** A study of the fundamentals of vacuum tubes and transistors, including application of these devices in electronic circuits. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 304-9.

**304-9 (3,3,3) Electrical Circuits.** (a) Foundations of electrical theory, solutions to D.C. steady state networks by the branch method, equivalent circuits, loop currents, and node voltages. Study of network theorems and dependent sources. Prerequisite: Mathematics 150a. (b) A.C. circuit theory by phasor transform method, complex power, three phase sources, mutual coupling, transformers. Prerequisite: 304a and Mathematics 150b. (c) Complex frequency, frequency response from pole-zero plots, Bode plots, transient analysis, introduction to Laplace transform methods. Laboratory. Prerequisite: 304b, Mathematics 225a.

**308-9 (3,3,3) Machine Design.** (a) Applications of the principles of mechanics to problems of design and development, mechanisms for specific functions, dynamic effects and friction in mechanisms. (b) Strength and safety considerations in design of machine parts. Fatigue and stress concentrations; power transmissions, bearings, brakes, clutches, and springs. (c) Combined stresses; helical, bevel, and worm gearing; curved beams, thick cylinder and flat plates; high-speed cams. The student puts previous studies into practice by design of a complete machine. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 260-9.

**310-9 (3,3,3) Construction Mechanics.** (a) A study of construction methods, the forces involved in the management of machinery and manpower. (b,c) The dynamics of estimating, scheduling and controlling procedures. Must be taken in a,b,c sequence. Prerequisite: 260-9.

**311-9 (3,3,3) Engineering Materials.** (See Engineering 311).

**314-9 (3,3,3) Soil Mechanics.** (a) Mechanics of soil masses; soils as engineering materials. Soil identification and testing. (b) Shearing resistance and consolidation of soils, deformations with an analytical review of the theoretical concepts, results of laboratory materials, including cement, foundation, and surfacing materials. Use of X-ray diffraction and Debye-Scherrer camera equipment. Influence of mineral constituents on soil behavior and design. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 311a,b.

**318-9 (3,3,3) Hydraulics.** (a) Fundamentals of fluid statics. Basic fluid flow concepts with applications. (b) Flow in open and closed conduits. Fundamentals of compressible fluid flow. Experimental techniques including the theory of hydraulic models and flow measuring techniques. Basic hydraulic machinery. Laboratory. (c) Hydrology. Flood routing and flood control. Fundamental principles of sediment transport and the collection and analysis of field data. Field trip. Must be taken in a,b,c sequence. Prerequisite: 260-9.

**320-9 (3,3,3) Mechanical Engineering Laboratory.** (a) A study of various types of measuring instruments. (b) Fuels and lubricants testing and exhaust gas analysis. (c) A study of the characteristics of internal combustion engines, steam turbines, compressors, pumps, fans, and refrigeration systems. Report writing. Laboratory. Must be taken in a,b,c sequence. Prerequisite: Engineering 300a.

**322-6 (3,3) Internal Combustion Engines.** (a) The design and principles of operation of internal combustion engines. The Otto, Diesel, and Brayton cycles and the fundamental thermodynamic laws involved. (b) Theories of combustion and detonation, combustion charts, fuels, and air tables. Effects of chemical equilibrium and variable specific heats. Cetane and octane numbers; carburetion and injection. Must be taken in a,b sequence. Prerequisite: Engineering 300b.

**332-9 (3,3,3) Electrical Machinery.** (a) Introduction to direct and alternating current machinery. Theory and operating characteristics. (b) Advanced studies on polyphase alternators, motors, machinery, and power generation. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 304-9.

**336-9 (3,3,3) Electrical Measurements.** (a) Theory and use of D.C. and A.C. instruments; analysis of sensitivity, accuracy, precision, and error. (b) A study of ammeters, voltmeters, and wattmeters. Energy measurements, watt-hour and demand meters. (c) Theory and application of impulse testing;



oscillography; standards and tests. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 304-9.

**337-9 (3,3,3) Manufacturing Processes.** (See Industrial Technology 337.)

**338-12 (4,4,4) Electrical Instrumentation.** (a) A discussion of the basic operating principles of control instruments and their applications to industrial processes. (b) The application of commercially available instruments to research problems. Dynamic and static calibration of instruments. (c) Control elements and techniques for devices and processes, dynamics of open and closed cycle control systems. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 304-9, 318a,b.

**340-4 Mechanisms.** The movement of bodies in space, basic mechanisms including analytical and graphical analysis. Linkages, cams, gears and their manufacture. Vibration, critical speeds, and gyroscopic applications. Laboratory. Prerequisite: 260-9.

**342-9 (3,3,3) Engineering Technology Design.** An elective project on any engineering subject selected by the student with advice from the instructor. Stimulates original thought and creativity. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 304-9, 311-6, Engineering 300a.

**347-9 (3,3,3) Foundation Engineering.** (a) Subsurface investigation, theory of consolidation and settlement, strength theory and conditions of failure due to stresses imposed by engineering structures on foundation materials. (b) Study of the principal problems involved in the analysis, design, and construction of foundations for buildings, highways and other engineering structures. (c) Science of soil stabilization, utilization of stabilization agents, stabilization of foundation materials. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 314-9.

**349-9 (3,3,3) Unit Operations.** (a) Heat, mass and momentum transfer in processing industries. Empirical correlations of experimental data. Equipment design. (b) Stagewise operations, graphical solutions of mass and heat transfer problems. Applications in evaporation, drying and distillation. Process design. (c) Two phase separations, gas absorption, solvent extraction and leaching. Experimentation.

**351-9 (3,3,3) Product Control.** (See Industrial Technology 351.)

**363-12 (4,4,4) Surveying.** (a) The use and care of surveying instruments. Fundamental principles of surveying, computations, route surveying, topographic surveying data processing. (b) Field astronomy, route surveying, land surveying, state coordinate systems, and subsurface surveys. (c) Precise surveying, geodesy, altimetry analysis of errors and error propagation, conditioned and adjusted by method measurements of least squares and other methods. Laboratory. Prerequisites: 363a. Technology 101a,b and Mathematics 111b.

**364-6 (3,3,) Highway Engineering.** (a) Highway administration, planning, economics and finance. Highway surveys, plans and computation. Traffic engineering. (b) Highway design, drainage, roadside development and subgrade structure. Instruction in all types of base courses, surfaces and paving. Highway construction and maintenance. Preferred in sequence but not required. Prerequisite: 363a.

**400-9 (3,3,3) Plastics Technology.** (a) Uses of plastic materials including laboratory research and techniques using various methods of fabrication and processing of plastic materials. (b) Properties of high polymers, stability, testing, rheology, mechanical, electrical, thermal, optical and chemical properties; specialty uses. (c) Plastics as materials of construction and their uses in industrial applications, laminates, engineering properties of rubbers, foams, adhesives and surface coatings; designing with plastics; plastics in electrical applications.

**425-2 to 8 Practicum in Technology.** Experiences in the industrial applications of technological knowledge. Cooperative arrangements with selected corporations and professional organizations provide opportunity to study technical problems in the industrial environment under the direction of specialists: Prerequisite: 12 hours in technical subjects.

**426-9 (3,3,3) Photogrammetry.** (a) Principles and practice of terrestrial and aerial photogrammetric mapping, including planning flights, control surveys, uncontrolled mosaics, radial-line control, simple stereoplotting instruments, parallel distortions, graphical till determination, trimetrogen charting and economics. (b) An advanced study of photogrammetric principles including controlled mosaics, rectification, graphical, mechanical, and analytical space



orientation. Readings and reports from current technical literature. The principles of many photogrammetric plotters are studied together with economic relation of these instruments to density of field control, office methods, and personnel. (c) A study of the soil and rock areas of the United States and the patterns present in aerial photographs. Fundamental elements of soil patterns are analyzed to permit determination of materials present and their properties. Emphasis is placed on photo interpretation for engineering and regional planning purposes. Laboratory. Prerequisite: 363a or consent of instructor.

**430-2 to 8 Special Problems in Industry and Technology.** Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of coordinator.

**437-9 (3,3,3) Industrial Electronics and Communications.** (a) Design of matching networks, impedance-admittance locus diagrams, transmission line equations, transmission line charts, stub matching. Prerequisite: 303a. (b) Electromagnetic fields in rectangular and circular wave guides, microwave techniques, antennas. (c) Unified treatment of various types of transmission systems with emphasis on the role of system bandwidth and noise in limiting the transmission of information.

**440-8 (4,4) Design and Analysis of Industrial Organizations and Productivity.** Case studies of industrial production methods and the process of industrial decision making; determinants of manpower utilization; transfer and processing of information, determinants of productivity levels. Prerequisite: consent of instructor.

**465-8 (4,4) Industrial Safety.** (Same as Industrial Education 465). (a) Basic fundamental principles of industrial accident prevention; significant accident statistics and costs; appraising safety performances; industrial plant hazards and safeguards; fire control fundamentals. (b) Effective industrial safety organizations, management and supervision; safety psychology; safety training programs; industrial hygiene programs; health safeguards; occupational diseases and other industrial hazards. Prerequisite: junior standing.

**506-2 to 12 Industrial Design Research.**

**507-4 Industrial Quality Control.**

**526-9 (3,3,3) Surveying and Photogrammetry.**

**527-9 (3,3,3) Transportation and Highway Engineering.**

**540-8 (4,4) Design of Man-Machine Systems and Analysis of Production.**

**570-2 to 6 Special Investigations.**

**580-1 to 9 Seminar.**

**599-1 to 9 Thesis.**

## English

**000-0 Remedial English as a Second Language.**

**105-6 (3,3) English Composition for Foreign Students.** A course in writing and reading skills: composition, note-taking, summaries, grammar. Equivalent to GSD 101a and b; limited to foreign students selected by proficiency examination on entrance.

**300-6 (3,3) Grammatical Analysis.** Basic principles of traditional, structural, and generative grammars. Required of all teacher training candidates and minors; elective to others. English 300a is prerequisite for 300b.

**302-12 (4,4,4) Survey of English Literature.** A survey (a) to 1550, (b) 1550-1750, (c) after 1750. All three courses are required of students with a concentration in English.

**309-12 (4,4,4) Survey of American Literature.** A survey (a) to 1860; (b) 1860 to 1914; (c) 1914 to the present.

**GSC 317-3 Recent American Literature.**

**GSC 318-3 British Modern Literature and Its Social Context.** (Summer, abroad.)

**GSC 345-9 (3,3,3) Masterpieces of World Literature.**

**GSC 351-6 (3,3) Masterpieces of the Novel.**

**GSC 365-3 Shakespeare.**

**390-3 Advanced Composition.** Expository writing.

**392-3 Professional Writing I.** Introductory course for undergraduates. Prerequisite to 492, but credit for the course does not constitute automatic admission to 492. Prerequisite: consent of instructor.



- 400—4 Introduction to English Linguistics.** An introduction to the methods of descriptive linguistics as applied to English: the phonemics, morphemics, and syntax of English. Recommended for those preparing to teach English.
- 402—4 Old English Literature in Translation.** A study of prose selections from Bede, Aelfric, and other writers, and of poetry from the simplest riddles and gnomic verses to the complex forms of the Caedmonic and Cynewulfian schools, the elegaic poems, and *Beowulf*. Emphasis is on the literary and cultural significance of works studied.
- 403—4 The History of the English Language.** A survey of the development of the language from Indo-European to modern English with special emphasis on Middle and Early Modern English changes.
- 404—12 (4,4,4) Middle English Literature.** (a) Middle English Literature excluding Chaucer, (b) Chaucer: early poems and *Troilus*, (c) Chaucer: *Canterbury Tales*.
- 405—8 (4,4) Descriptive Linguistics.** (a) Phonetics and phonemics, an analysis of language structure from phone to phoneme; (b) morphology and syntax, an analysis of language structure from morph to sentence. May be taken singly. Prerequisite: consent of instructor.
- 412—16 (4,4,4,4) English Nondramatic Literature.** (a) Sixteenth Century, (b) seventeenth century, (c) the Augustan Age, 1660-1744, (d) the Age of Johnson, 1744-1798. May be taken singly.
- 418—4 English Literature, 1885-1914.** Poetry, drama and fiction of the later Victorian and early modern period.
- 420—8 (4,4) American Poetry.** (a) Trends in American poetry to 1900 with a critical analysis of the achievement of the more important poets, (b) the more important poets since 1900. May be taken singly.
- 421—16 (4,4,4,4) English Poetry.** (a) Early Romantics: major emphasis on general background and on Blake, Coleridge, and Wordsworth; (b) later Romantics: emphasis on Byron, Shelley, and Keats, the minor figures; (c) Victorian poets: Tennyson, Browning, Arnold, and other poets in England, 1830-1880; (d) modern British poets. May be taken singly.
- 425—4 Modern Continental Poetry.** Representative Poems by major 20th century poets of France, Italy, Germany, Spain, Russia, and Greece.
- 431—12 (4,4,4) Major American Writers.** Significant writers of fiction and nonfictional prose from the Puritans to the twentieth century. (a) 1620-1800; (b) 1800-1865; (c) 1865-1915. May be taken singly.
- 438—4 Intellectual Backgrounds of American Literature.** The relationship of basic ideas in America to American literature.
- 442—4 Romantic Prose.** Fiction of Austen, Scott, Mary Shelley, Peacock, the Gothic novelists; prose of Lamb, Landor, Hazlitt, DeQuincey; criticism, journals and letters.
- 443—4 Victorian Prose.** The chief writers of nonfiction prose from the late romantics to 1880.
- 447—4 American Humor and Satire.** A consideration of the writers and forms of nineteenth and twentieth century humor.
- 454—12 (4,4,4) English Fiction.** (a) Eighteenth century: Defoe through Jane Austen, (b) Victorian novel: 1830-1880; (c) twentieth century. May be taken singly.
- 456—4 Modern Continental Fiction.** Selected major works of European authors such as Mann, Silone, Camus, Kafka, Malraux, Hesse.
- 458—8 (4,4) American Fiction.** (a) The novel in America from its beginnings to the early twentieth century; (b) trends and techniques in the American novel and short story since 1914. May be taken singly.
- 460—16 (4,4,4,4) British Drama.** (a) Elizabethan drama: from the beginning of the drama in late Middle Ages through its flowering in such Elizabethan playwrights as Greene, Peele, Kyd, Marlowe, Heywood, Dekker, but excluding Shakespeare; (b) Jacobean drama: the Jacobean and Caroline playwrights: Jonson, Webster, Marston, Middleton, Beaumont and Fletcher, Massinger, Ford Shirley; (c) Restoration and eighteenth century drama: after 1660, representative types of plays from Dryden to Sheridan; (d) modern British drama. May be taken singly.
- 464—4 Modern Continental Drama.** The continental drama of Europe since 1870; representative plays of Scandinavia, Russia, Germany, France, Italy, Spain, and Portugal.
- 468—4 American Drama.** The rise of the theater in America, with readings of plays, chiefly modern.



- 471-8 (4,4) **Shakespeare.** (a) The plays before 1600; (b) the plays of 1600 and later. Readings on the life of Shakespeare, the theater, and the acting company. May be taken singly.
- 473-4 **Milton.** A reading of a selection of the minor poems, of *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*. Also a reading of the major treatises.
- 485-4 **Problems in the Teaching of English.** Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.
- 486-2 to 8 **Workshop in High School English.**
- 487-2 to 8 **Workshop in Junior High School English.**
- 492-8 (4,4) **Professional Writing II.**
- 494-4 **Literature in Society.** An analysis of the structure and function of literature as a social institution.
- 495-8 (4,4) **Literary Criticism.** (a) History of criticism: ideas and techniques from Aristotle to the end of the nineteenth century; (b) modern criticism: recent critics and critical attitudes, and practice in writing criticism.
- 497-12 (4,4,4) **Senior Honors Seminars.** (a,b) Topic will vary yearly. (c) Honors Readings. Enrollment restricted to undergraduates. Departmental approval required.
- 499-2 to 6 **Readings in English.** For English concentrations only. Departmental approval required. No more than four hours may be taken any one quarter.
- 500-2 **Materials and Methods of Research in English.**
- 501-4 **Old English Grammar.**
- 502-4 **Beowulf.**
- 504-4 **Advanced English Syntax.**
- 505-4 **Contrastive Linguistic Structures.**
- 506-3 **Old Norse.**
- 508-4 to 12 **Studies in Chaucer.**
- 509-4 to 12 **Studies in Middle English.**
- 511-4 to 12 **Studies in The Renaissance.**
- 513-4 to 12 **Studies in Seventeenth Century Literature.**
- 514-4 to 12 **Studies in Restoration and Eighteenth Century Literature.**
- 518-4 to 12 **Studies in English Literature, 1885-1914.**
- 519-4 to 12 **Studies in Contemporary British Literature.**
- 520-4 to 12 **Studies in Romantic Writers.**
- 521-4 to 12 **Studies in Victorian Poetry.**
- 524-4 to 12 **Studies in the Metaphysical Poets.**
- 532-4 to 12 **Studies in American Transcendentalism.**
- 534-4 to 12 **Studies in Early Nineteenth Century American Writers.**
- 536-4 to 12 **Studies in Later Nineteenth Century American Writers.**
- 537-4 to 12 **Studies in Twentieth Century American Writers.**
- 538-4 to 12 **Problems in American Literature.**
- 543-4 to 12 **Studies in Victorian Nonfiction Prose.**
- 555-4 to 12 **Studies in The Victorian Novel.**
- 560-4 to 12 **Studies in Renaissance Drama.**
- 566-4 to 12 **Studies in Shakespeare.**
- 569-4 **Seminar in Special Problems of English as a Foreign Language.**
- 579-16 (4,4,4,4) **Studies in Modern Literature.**
- 580-4 **Traditional Themes.**
- 581-12 (4,4,4) **Problems in High School English.**
- 585-2 **Teaching College Composition.**
- 588-9 (3,3,3) **Methods of Teaching English as a Foreign Language.** (a) Classroom techniques, (b) laboratory methods, (c) preparation of materials.
- 594-4 or 8 **Studies in Literary Form and Symbolic Action.**
- 597-2 to 4 **Readings in Linguistics.**
- 598-1 to 6 (1 to 3, 1 to 3) **Review of English and American Literature.**
- 600-1 to 48 **Dissertation.**

## Finance

- 301-1 to 6 **Readings in Finance.** Readings in classical and current writing on selected topics in various areas in the field of Finance.
- 305-4 **Personal Finance.** An introduction to the problems of personal financial asset management, including income and expense budgeting. Emphasis also placed on consumer credit, insurance, investments, home ownership and taxation. (Not open to students with concentrations in the School of Business.)



**320-5 Introduction to Business Finance.** Financial structure in industry, sources of capital, regulation of securities, of stock exchanges, and the Security and Exchange Commission; dividend and other financial policies. Interpreting corporation reports and evaluating securities through the analysis of financial statements. Prerequisites: Accounting 251c or consent of instructor. Economics 215.

**323-4 Investments.** Survey of the problems and procedures of investment management; types of investment risks; investment problems of the individual as well as the corporation. Prerequisite: 320 or consent of instructor.

**324-4 Security Analysis.** Application of investment principles to investment policy; analytical principles and techniques; analysis of fixed income corporate securities, of senior securities with speculative features, of common stocks, of government and municipal securities, and of investment company securities. Prerequisite: Finance 323.

**325-4 Financial Institutions.** Study of sources and uses of funds of commercial banks, savings and loan associations, pension funds, insurance companies, credit unions, consumer finance companies, sales finance companies and other financial institutions. Prerequisite: Economics 214.

**326-4 Commercial Bank Management.** A study of the principal policies and problems which confront top management. Major emphasis is given to liquidity, loans, investments, deposits and capital funds. Consideration is also given to bank statements, organization structure, operations, personnel, cost analysis, and public relations. Junior standing or consent of instructor.

**327-4 General Insurance.** Underlying principles and functions of insurance in the economic life of the individual and of business. Prerequisite: junior standing or consent of instructor.

**328-3 Real Estate.** A study in real estate decision making and analysis of real estate problems. Examines the environment and variables; the background; the specialists on decision making; and, the purchase, financing, and estate planning decisions.

**371-4 Business Law I.** Introduction to the history and philosophy of law, contract law, jurisdiction and court procedure, conflicts of law and tort law.

**372-4 Business Law II.** Real property law, personal property law, partnership law, agency and corporation law. Prerequisite: 371.

**373-4 Business Law III.** Negotiable instruments, sales, suretyship and uniform commercial code. Prerequisite: 371.

**421-4 Management of Business Finance.** The principal problems of managing the financial operations of an enterprise. Emphasis upon analysis and solutions of problems pertaining to policy decisions. Prerequisite: 320.

**422-4 Advanced Financial Management.** The development of ability to use sophisticated analytical tools by the discussion of case situations dealing primarily with capitalization, return on investment, and cost of capital. Prerequisite: 421.

**428-4 Life Insurance.** Particular attention given to policy forms and provisions, reserve and investment problems, company organization, legal aspects, taxation, and personal and business needs. Prerequisite: 327.

**430-4 Business Finance.** An introductory course combining both a description of the structure of business financing and an analysis of functional finance from a managerial viewpoint. Restricted to MBA students.

**473-4 Business in its Legal Environment.** Social and economic assessment of environmental factors influencing business policies and strategies. Emphasis is placed on legislation affecting competition and allocation of the firm's products and resources. Prerequisite: senior standing.

**475-4 Budgeting and Systems.** Budgeting and system as aids in coordinating and directing business operations. Prerequisites: 320, Accounting 251c.

## Food and Nutrition

**100-3 Fundamentals of Nutrition.** Emphasis on basic principles of food and nutrition in relation to personal health.

**106-3 Fundamentals of Foods.** An introduction to the basic principles and techniques of food preparations. Not open to students specializing in Food and Nutrition or Home Economics Education.

**247-6 (2,2,2) The School Lunch Program.** (a) Food purchasing; (b) quantity food production, and (c) nutrition practices in the school lunchroom.



- 256-5 Science of Food.** Application of scientific principles to food preparation. Prerequisites: 100, GSA 101c or equivalent.
- 320-3 Nutrition.** Principles of nutrition in relation to intermediary metabolism and the role of vitamins and minerals. Prerequisites: 100, Chemistry 110 and 240.
- 321-3 Food and Nutrition Demonstration.** Emphasis on principles of food and nutrition including food standards and demonstration techniques. Field trip. Prerequisite: 256.
- 335-4 Meal Management.** The selection, purchase, preparation and service of food with emphasis on time and money management. Prerequisite: 256.
- 356-4 Experimental Foods.** Experimental approach to the study of factors influencing the behavior of foods. Individual problems. Prerequisites: 256, GSA 101b,c.
- 360-8 (4,4) Quantity Food Production.** (a) Use of power equipment, standardized formulas, and techniques of quantity preparation and service of food to large groups; (b) Practical experiences in area food service units. Prerequisite: 256.
- 361-3 Food Service Organization and Management.** Policies, budgets, supervision, and personnel in feeding large groups. Prerequisite: 256.
- 362-3 Institution Equipment and Layout.** Selection and arrangement of various types of institutional food service equipment, including materials, construction, operation, cost, use and care. Field trip. Prerequisite: 256.
- 363-3 Food Purchasing for Institutions.** Principles and methods of purchasing food in quantity. Field trip. Prerequisite: 256.
- 371-6 Field Experience.** Opportunity for supervised learning experiences in the student's area of concentration. Consent of instructor and chairman.
- 390-3 Diet Therapy.** Study of physiological and biochemical changes in certain diseases with emphasis on those involving nutritional therapy. Prerequisite: 320.
- 420-3 Recent Developments in Nutrition.** Critical study of current scientific literature in nutrition. Prerequisite: 320 or equivalent.
- 421-3 Recent Trends in Food.** Critical study of current scientific literature in food. Prerequisite: 320 or equivalent.
- 481-2 to 4 Readings.** Supervised readings for qualified students. Prerequisites: 320 or consent of chairman and instructor.
- 490-3 Nutrition and Growth.** Lectures, readings, and discussions on nutrition in relation to human growth. Prerequisites: 420 or equivalent.
- 500-4 Research Methods.**
- 515-1 to 6 Seminar.**
- 520-3 Advanced Nutrition.**
- 556-4 Advanced Experimental Foods.**
- 572-2 to 8 Special Problems.**
- 599-5 to 9 Thesis.**

## Foreign Languages

The student who has completed one year of foreign language in high school will usually begin with the first quarter of the first year course which is in General Studies. The student who has completed two years of high-school foreign language will usually begin with the intermediate course.

Students taking work in any first year college foreign language series should note that the first two quarters will not be counted as electives toward graduation unless the third quarter is also completed.

### General Foreign Language Courses

**435-4 to 8 Workshop in Elementary Foreign Language Instruction.** Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages at the elementary school level. To count as education or foreign languages. Prerequisite: basic language credit.

### Chinese

**120-3 (1,1,1) Chinese Conversation.** Conversation and oral drill taken with GSD 120 by students who wish additional oral training: elected only by students enrolled in GSD 120.

**201-15 (5,5,5) Intermediate Chinese.** Designed to give the students a review of the Chinese language and its expansion, a reading ability of modern prose, and practice in conversation and composition. Must be taken in a,b,c sequence. Prerequisite: one year of college Chinese (GSD 120c) or equivalent.

### *French*

**123-3 (1,1,1) French Conversation.** Conversation and oral drill taken with GSD 123 by students who wish additional oral training: elected only by students enrolled in GSD 123. Parts may be taken singly.

**161-0 French for Graduate Students.** Intensive study of grammar and vocabulary. Designed for graduate students desiring a reading knowledge of French.

**201-9 (3,3,3) Intermediate French.** Composition, oral practice, rapid reading of modern authors with special attention to the role of French culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 123 or two years of high school French, or equivalent.

**220-6 (2,2,2) Intermediate French Conversation.** Development of oral skill on the intermediate level. Offered for 3 quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

**GSC 305-3 Contemporary French Drama.**

**310-9 (3,3,3) Survey of French Literature.** French literature from the beginning to the present time. Should be taken in a,b,c sequence. Prerequisite: 201c.

**320-6 (2,2,2) Advanced Conversation.** Conversation based on French history. Should be taken in a,b,c sequence.

**350-8 (4,4) Advanced Composition and Conversation.** Oral and written practice for advanced students; intensive study of idiomatic expressions and current usage. Should be taken in a,b sequence.

**352-5 French Conversation and Phonetics.** A thorough study of the phonetic alphabet and the formation of French sounds.

**400-4 French Literature Between 1870 and 1914.** A survey of naturalism and the subsequent reactions to naturalism, chiefly in the drama and novel. Prerequisite: 310c.

**401-9 (3,3,3) French Literature of the 17th Century.** (a) Tragedy; (b) Comedy; (c) Nondramatic literature.

**403-9 (3,3,3) French Literature of the 18th Century.** (a) Theater; (b) Novel; (c) Philosophic and Didactic Literature.

**405-3 French Contemporary Novel.** A study of the novel from 1900 to the mid 20th century, with detailed attention to Proust and Gide.

**406-3 French Poetry from 1850 to 1900.** The Parnassian and Symbolist Movements in French poetry.

**407-3 French Poetry Since 1900.** A study of French poetry from 1900 to the present.

**500-2 Seminar in Contemporary French Literature.**

**501-2 to 6 Seminar on a Selected French Author.**

**502-3 French Literature from La Chanson de Roland to Rabelais.**

**503-3 Rabelais and Montaigne.**

**504-3 La Pleiade.**

**507-3 A Study of Romanticism in France.**

**510-4 19th Century Realism.**

**511-3 20th Century French Drama.**

**515-6 (3,3,) Old French.**

**520-4 Graduate Composition and Diction.**

**543-2 to 6 Research Problems.**

**599-2 to 9 Thesis.**

### *German*

**126-3 (1,1,1) German Conversation.** Conversation and oral drill taken with GSD 126 by students who wish additional oral training: elected only by students enrolled in GSD 126. May be taken singly.

**161-0 German for Graduate Students.** Intensive study of grammar and vocabulary. Designed for graduate students desiring a reading knowledge of German.

**201-9 (3,3,3) Intermediate German.** Composition, oral practice, rapid reading of modern authors with special attention to the role of German culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 126 or two years of high school German, or equivalent.



- 220-6 (2,2,2) Intermediate German Conversation.** Development of oral skill on the intermediate level. Offered for 3 quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.
- 301-8 (4,4) Survey of German Literature to 1800.** Historical development of German literature. Should be taken in a,b sequence.
- 303-4 German "Novelle" in the Nineteenth Century.** A study of representative works from 1800 to 1900, with emphasis on the literary movements of that time.
- 304-12 (4,4,4) Advanced Composition and Conversation.** Required for prospective teachers of German.
- 310-8 (4,4) Introduction to German Classical Literature.** Lessing, Goethe, Schiller. Reading and discussion of representative works.
- 312-4 German Drama in the Nineteenth Century.** Kleist, Grillparzer, Hebbel. Reading and discussion of representative works.
- 315-4 From Rationalism to Realism.** Study of German literary works representing 18th Century Rationalism, "Sturm und Drang" and Romanticism which leads over to the literature of Realism; lectures and reports.
- 401-4 (2,2) Goethe's Faust.** (a) The Faust legend and early Faust books and plays; the genesis of Goethe's Faust: reading of Part I. (b) reading of Part II; study of symbolism such as blending of paganism with Christianity, ancient Greek culture with Germanic culture. Must be taken in a,b sequence.
- 402-3 Advanced German Syntax.** Descriptive and contrastive study of German syntax, with particular attention to the needs of prospective teachers.
- 403-3 German Ballads and Lyrics.** A selective study of the foremost examples of German balladry and lyric poetry, ranging from the poetry of Klopstock and Burger to that of Hesse, Benn, etc. Lectures, recitations.
- 404-4 Weimar and Its Aftermath.** German writings from the inception of the Weimar Republic to the end of World War II, with special reference to the correlation existing between literary expression and social, economic and political conditions.
- 406-3 The German Comedy.** Comic and satirical works in German Literature, with special emphasis on the "Lustspiel" since 1800; lectures, reports.
- 407-2 Great German Plays of the 20th Century.** Study and selective readings of outstanding stage successes; lectures, reports.
- 408-4 German Civilization.** Intensive study of the German speaking areas of the world, with emphasis on the anthropological and sociological aspects of their respective cultures (Austrian, German, Swiss, "Reichs-deutsch," etc.); lectures, reports.
- 411-6 (3,3) Middle High German.** (a) Grammar, and selective readings in both MHG originals and NHG translations of such epics as the Nibelungenlied and Gudrun. (b) The Courtly epic poetry of such authors as Wolfram von Eschenbach, Gottfried von Strassburg, Hartmann von Aue, the lyric poetry of Walther von der Vogelweide, and didactic prose.
- 413-6 (3,3) German Linguistics.** (a) Introduction to Comparative German Linguistics tracing relationships among German languages on the basis of phonology, morphology, and syntax; (b) History of the German language; a survey of the development of German through the Old-, Middle-, and High German periods; lectures, readings, reports.
- 497-1 to 2 Readings in 18th Century German Literature.** Departmental approval required.
- 498-1 to 2 Readings in 19th Century German Literature.** Departmental approval required.
- 499-1 to 2 Readings in 20th Century German Literature.** Departmental approval required.
- 500-2 Seminar in Contemporary Literature.**
- 501-2 Seminar on a Selected German Author.**
- 506-2 Romanticism I.**
- 507-2 Romanticism II.**
- 509-4 (2,2,) Old High German.**
- 512-3 19th Century German Novel.**
- 513-3 20th Century German Novel.**
- 514-3 Seminar in Folklore.**
- 533-3 Gothic.**
- 543-2 to 6 Research Problems.**
- 544-12 NDEA Summer Institute for Teachers.**



591-2 to 6 Seminar on Kant.  
599-2 to 9 Thesis.

### *Greek*

201-12 (4,4,4) **Intermediate Greek.** Grammar review and composition. Selected readings. Taken in a,b,c sequence. Prerequisite: GSD 130c.  
301-4 **Greek Historians.** Reading and discussion of selections from the histories of Herodotus, Thucydides, and Xenophon.  
302-4 **Plato.** Reading and discussion of the **Republic**.  
303-4 **Aristotle.** Reading and discussion of the **Ethics**.  
311-8 (4,4) **Homer.** Reading and interpretation of selections from the **Iliad** and the **Odyssey**. Should be taken in a,b sequence.  
313-4 **Greek Tragedy.** Reading of at least two plays from the works of Aeschylus, Sophocles, and Euripides.  
315-2 to 8 **Readings from Greek Authors.** Flexible reading program of works not included in other courses. By special permission only. Prerequisite: 201c.  
GSC 320-3 **Greek Literature in Translation.**  
GSC 330-3 **Classical Mythology.**  
GSC 332-3 **Classical Drama.**

### *Italian*

144-3 (1,1,1) **Italian Conversation.** Taken with GSD 144 by students who wish additional oral training; elected only by students enrolled in the corresponding beginning sections. Each quarter may be taken separately.

### *Latin*

201-12 (4,4,4) **Intermediate Latin.** Composition and reading from various authors. Should be taken in a,b,c sequence. Prerequisite: GSD 133 or two years of high-school Latin.  
301-4 **Cicero's Essays and Letters.** Prerequisite: 201c or equivalent.  
302-4 **Vergil's Eclogues and Georgics.** Prerequisite: 201c or equivalent.  
303-4 **Tacitus.** Prerequisite: 201c or equivalent.  
304-2 **Private Life of the Romans.**  
311-4 **Roman Comedy.** Prerequisite: 201c or equivalent.  
312-4 **Horace's Odes and Epodes.** Prerequisite: 201c or equivalent.  
313-4 **Letters of Pliny.** Prerequisite: 201c or equivalent.  
315-2 to 8 **Readings from Latin Authors.** Flexible reading program in works not included in other courses. By special permission only.  
326-4 **Ovid's Metamorphoses.**  
GSC 331-3 **Latin Literature in Translation.**  
GSC 332-3 **Classical Drama.**  
335-4 **Vergil's Aeneid.**  
342-4 **Advanced Composition.** A careful study based on classic prose-writers.

### *Portuguese*

135-3 (1,1,1) **Elementary Portuguese Conversation.** Conversation and oral drill taken with GSD 135 by students who wish additional oral training. Elected only by students enrolled in GSD 135. Parts may be taken singly.  
201-9 (3,3,3) **Intermediate Portuguese.** Composition, oral practice, rapid reading of modern authors. Must be taken in a,b,c sequences. Prerequisite: GSD 135c or two years of high school Portuguese, or equivalent.

### *Russian*

136-3 (1,1,1) **Russian Conversation.** Conversation and oral drill taken with GSD 136 by students who wish additional oral training; elected only by students enrolled in GSD 136. Parts may be taken singly.  
161-0 **Russian for Graduate Students.**  
201-9 (3,3,3) **Intermediate Russian.** Composition, oral practice, rapid reading of modern authors with special attention to the role of Russian culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 136 or two years of high school Russian, or equivalent.  
220-6 (2,2,2) **Intermediate Russian Conversation.** Development of oral skill on the intermediate level. Offered for three quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

- 308-9 (3,3,3) Survey of Russian Literature.** Historical survey of major movements, authors, and works in Russian to the present time. Should be taken in a,b,c sequence. Prerequisite: 201c.
- 320-2 Readings in Russian Literature.** Selected readings in areas not covered in regular course work.
- 330-6 (2,2,2) Advanced Composition and Conversation.** Based on the history of Russia and the cultural heritage of the Russian people. Should be taken in a,b,c sequence concurrently with 308-9.
- 401-8 (4,4) The Russian Novel in the Nineteenth Century.** Should be taken in a,b, sequence.
- 411-8 (4,4) Introduction to Russian Classical Literature.** Gogol, Pushkin, Turgenev, Tolstoy. Should be taken in a,b sequence.
- 413-4 Russian Drama in the Nineteenth Century.** Griboyedov, Gogol, Pushkin, and minor dramatists.
- 414-3 Russian Poetry from Zhukovsky to 1920.** A study of Russian Poetry from Sentimentalism through Symbolism.
- 425-3 Soviet Literature Since 1917.** A study of satirists and writers of everyday life. Constructivism and followers; Soviet literary criticism. Lectures, readings, and reports.
- 452-4 Advanced Composition and Conversation.** Oral and written composition of a practical nature for advanced students; emphasis on study of idiomatic expressions and current usage.
- 500-2 Seminar in Contemporary Russian Literature.**
- 501-2 Seminar on a Selected Russian Author.**
- 503-2 Seminar on 19th Century Russian Literature.**
- 509-3 Russian Literature of the 17th Century.**
- 510-3 Russian Literature of the 18th Century.**
- 514-6 (2,2,2) History of the Russian Language.**
- 520-4 Russian Linguistic Structure.**
- 543-2 to 6 Research Problems.**
- 599-2 to 9 Thesis.**

### *Spanish*

- 140-3 (1,1,1) Spanish Conversation.** Conversation and oral drill taken with GSD 140 by students who wish additional oral training; elected only by students enrolled in GSD 140. Parts may be taken singly.
- 161-0 Spanish for Graduate Students.** Intensive study of grammar and vocabulary. Designed for graduate students desiring a reading knowledge of Spanish.
- 201-9 (3,3,3) Intermediate Spanish.** Composition, oral practice, rapid reading of modern authors with special attention to the role of Spanish culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 140 or two years of high school Spanish, or equivalent.
- 220-6 (2,2,2) Intermediate Spanish Conversation.** Development of oral skill on the intermediate level. Offered for 3 quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.
- 310-9 (3,3,3) Survey of Spanish Literature.** The literature of Spain to the present. Should be taken in a,b,c sequence. Offered alternately with 333. Prerequisite: 201c.
- 316-3 Civilization Espanola.** A study of the cultural patterns and heritage of the Spanish people from earliest times to the present. Prerequisite: 315 or consent of instructor.
- 320-6 (2,2,2) Advanced Composition and Conversation.** Required of students with a concentration in Spanish and students preparing to teach. May be taken concurrently with 310 or 333.
- 333-9 (3,3,3) Survey of Spanish American Literature.** Spanish literature in America from the conquest to modern times. Offered alternately with 310. Prerequisite: 201c.
- 350-3 Advanced Composition.** Daily themes based on Spanish models, with free composition once a week. Class discussions.
- 360-2 to 8 Travel-Study Course in Mexico.** Lectures and course work at Mexican universities, in conjunction with the Latin American Institute's Study Abroad Program. Native professors and lecturers in Mexico City and other points visited. Individual projects and reports. Prerequisite: advanced standing in Spanish.



## IBERIAN

- 401-3 **Spanish Novel of the 19th Century.** Study of representative novels of Fernan Caballero, Valera, Pereda, Galdos, etc.
- 402-3 **Spanish Drama of the 18th and 19th Centuries.** Reading of representative plays of the chief dramatists from Moratin to the Generation of 1898.
- 403-3 **Spanish Poetry.** General survey of Spanish poetry from its beginnings to 1900.
- 404-6 (3,3) **Spanish Literature of the 20th Century.** (a) The Generation of 1898. (b) Contemporary Novel and Essay. Main trends of the Spanish novel and essay since 1900.
- 415-3 **Spanish Phonetics.** Analysis of the sounds of Spanish and their manner of production; intonation; levels of speech; oral practice.
- 440-6 (3,3) **The Golden Age: Drama.** Plays of Lope de Vega, Calderon, Tirso de Molina, Ruiz de Alarcon, and others.
- 445-4 **Cervantes. Don Quijote;** other works assigned as collateral readings.
- 501-2 **Seminar on a Selected Spanish Author.**
- 505-3 **The Picaresque Novel.**
- 506-3 **The Renaissance.**
- 515-6 (3,3) **Old Spanish.**
- 520-3 **Seminar in Syntax.**
- 525-3 **The Spanish Ballads.**
- 543-2 to 6 **Research Problems.**
- 560-4 **Spanish and Latin American Bibliography.**
- 599-2 to 9 **Thesis.**

## AMERICAN

- 421-3 **Survey of Modernism in Spanish American Poetry.** Study of its origins, characteristics and achievements.
- 422-3 **Contemporary Spanish American Poetry.** Spanish American poetry since modernism.
- 423-3 to 4 **The Mexican Novel of the 20th Century.** Emphasis on fiction dealing with the Revolution and related social problems.
- 424-3 to 4 **Gaucha Literature.** Study of the Gaucha as a social class and of the types of literature developed to portray and symbolize his way of life, attitudes and values.
- 426-3 **The Mexican Short Story.** Survey of the Mexican short story from pre-Conquest to the present.
- 427-3 **Spanish American Drama.** Study of representative works of Florencio Sanchez, Rodolfo Usigli, Armando Mooch, Samuel Eichelbaum, Xavier Villarrutia, and others.
- 478-4 **Seminar in Latin American Thought.** (See Philosophy 478.)
- 500-2 **Seminar in Latin American Literature.**
- 535-3 **Mexican Essayists of the 19th Century.**
- 538-3 **Seminar on Spanish American Poetry.**
- 541-3 **Seminar on Spanish American Literary Criticism.**
- 543-2 to 6 **Research Problems.**
- 560-4 **Spanish and Latin American Bibliography.**
- 599-2 to 9 **Thesis.**

*Romance Philology*

- 410-4 **Romance Philology I.** Survey of phonology, morphology, and syntax changes in Romance languages in general; special attention to the developments in French and Spanish for students with concentration in these fields.
- 514-4 **Romance Philology II.**
- 516-4 **Arthurian Romance.**

<sup>1</sup>Courses count toward concentration in French or Spanish.

**Forestry**

- 104-3 **Introduction to Forestry.** Acquaints students with the broad field of multiple-use forestry. Special emphasis is given to forestry as a profession. Field trips. For students with a concentration in forestry or with instructor's consent. Only offered to freshmen or sophomore students.



- 221–2 to 4 Dendrology.** Taxonomy and silvics of angiospermous and gymnospermous trees and shrubs. Field trips.
- 230–2 Lumber Grading.** The study and practice of applying National Hardwood, Southern Pine, and West Coast Rules in grading lumber. Tally methods and grading for special products are also covered.
- 301–4 Soil Science for Foresters.** (Same as Plant Industries 301.) Basic concepts of soil formation, classification, characteristics, fertilization, and management as they apply to the growth of trees. Field trips. Prerequisite: one course in chemistry and a concentration in forestry.
- 306–3 Silvical Field Studies.** The forest as a result of site and biotic factors. Influences of the forest on the site. Prerequisite: GSA 340.
- 320–4 Wood Technology.** Structure, identification, and physical properties of wood. Prerequisite: GSA 201c.
- 330–2 Harvesting Forest Products.** Principles of harvesting and transporting forest products. Field trips.
- 333–4 Forest Products Industries.** Principles of management and manufacturing methods in forest products industries. Utilization studies of Illinois logging and lumber companies.
- 340–2 Forest Protection.** The causes and effects of forest fires; physics of fire behavior; use of fire as a silvicultural tool.
- 350–6 (3,3) Forest and Outdoor Recreation.** Recreational use of forest and adjacent lands with emphasis on parks and national forests. Administration; interpretation; trends in use and developments. Field trips.
- 360–4 Farm Forestry.** The management of farm woodlands, measurement of logs, trees, and stands; planting and harvesting methods; improvement cuttings; uses and marketing of woodland products. Field trips. Forestry students not admitted. 104, 360, and 361 mutually exclusive.
- 361–4 Forest Conservation.** The importance and use of forests, their management and conservation, public forest policy. Forestry and other agricultural students not admitted. 104, 360, and 361 mutually exclusive.
- 363–9 (5,4) Forest Mensuration.** (a) Principles and methods of measuring volume of trees, stands of timber, and rough wood products. Preparation of yield tables and growth studies. Field trips. Prerequisite: GSD 109 or 115. (b) Timber cruising, log scaling, and growth studies on Southern Illinois University. Experimental Forest and cooperating forest ownerships. Spring field trips. Prerequisite: 363a.
- 365–10 (4,3,3) Silviculture.** (a) The theory and practice of applying ecological knowledge to economic management of establishment, composition, and growth of forest stands. Field trips. Prerequisites: Botany 320, Plant Industries 301 (concurrent), GSA 340. (b) Student participation in planting, weeding, thinning, pruning and improvement cuttings. Prerequisite: 365a. (c) Applied systems of silviculture to commercially important timber species and types in the U.S. Prerequisite: 365a.
- 369–3 Forest Photogrammetry.** Use of stereoptic plotting instruments and aerial photos to map and type forest stands.
- 375–4 Forest Management.** Economic and technical principles involved in managing forests. Prerequisite for 365a,b.
- 381–1 to 2 Agricultural Seminar.** (Same as Animal Industries 381, Agricultural Industries 381, and Plant Industries 381.) Discussion of problems in agriculture and forestry. Limited to senior students.
- 390–1 to 6 Special Problems in Forestry.** Assignments involving research and individual problems in forestry. Prerequisite: advanced standing and written consent of instructor, 3.75 grade point average, and consent of chairman.
- 401–3 Advanced Forest Mensuration.** Theory and practical problems in biometrics to obtain estimates of forest populations. Use of computers and other advanced techniques. Prerequisites: 363–9 or equivalent.
- 410–3 Forest Management for Wildlife.** Interrelations between forest practices and game. Forest protection from mammals and birds. Emphasis is on the treatment of the forest. Prerequisite: Zoology 463 and concentration in forestry or consent of instructor.
- 440–4 Ecology of Grasses and Grasslands.** (Same as Botany 440.) Structure, analysis, and dynamics and grassland communities; structure and growth of individual species. Field and laboratory work. Prerequisite: GSA 340 or consent of instructor.
- 450–4 Forest and Park Administration.** Fundamentals of management and administration of recreation forests. Development of forests and suburban



parks under a forest environment. Review of current local, state, and Federal legislation applicable to forest recreation.

**451a-3 Forest Park Plans.** Fundamental and applied principles and elements involved in site, master, and comprehensive planning for outdoor recreation at the state, metropolitan, and federal level. Prerequisites: 350-6 or consent of instructor.

**451b-4 Park Design and Development.** Basic planning and design principles of space, scale, and circulation applied to park and recreation areas at the state, metropolitan, and federal levels. Basic elements in park and recreation area site planning, selection and development. Prerequisites: 350-6 or consent of instructor.

**464-4 Advanced Silviculture.** Analysis and measurement of site quality; stand density; growth as related to site factors and competition; factors affecting reproduction; the tree as a variable. Prerequisite: 365a,b.

**465-2 Forest Field Studies.** An extended trip to study forest conditions and management practices in different forest regions of the United States. Cost shared by students. Prerequisites: 330, 363a, 365a.

**466-3 Forest Watershed Management.** Effects of treatment of forested watersheds on quality and quantity of water yield. Consideration of alternatives in water use and flood control. Prerequisites: Plant Industries 301, GSA 330, or consent of instructor.

**470-8 (4,4) Economics of Forestry.** (a) Production. Introduction to forestry economics; micro-economics of forestry production and conservation. Prerequisite: GSB 211a. (b) Marketing. Marketing in the forestry economy; introduction to aggregate planning in forestry including consumption and production goals. Prerequisite: 470a or consent of instructor.

**471-4 Land Resource Economics.** (Same as Agricultural Industries 471 and Economics 471.) The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resources planning techniques. Prerequisites: 470a or Agricultural Industries 350 or Economics 440.

**476-3 Cases in Forest Management.** A series of case studies analyzing governmental, industrial, and private forest management objectives and plans implemented by executive decisions. Prerequisite: 375:

**520a-1 to 6 Readings in Forestry or Forest Recreation.**

**520b-1 to 6 Readings in Resource Economics.**

**520c-1 to 6 Readings in Forest Products or Wood Science.**

**570-3 Principles of Research.**

**575-1 to 6 Research.**

**581-1 to 6 Seminar.**

**599-2 to 9 Thesis.**

### Freshman Convocation

**000-0 Freshman Convocation.** (Same as University Convocation.)

### Freshman Honors Seminar

**111-0 Seminar for Superior Freshmen.**

### Geography

**300-4 Introduction to Geography.** The nature of geography, the kinds of problems which it investigates, the methods which it uses. Preparation for systematic geography.

**302-4 Physical Geography.** A study of the earth's physical surface, world distribution patterns of the physical elements, their relationship to each other and their importance to man. Field trip and laboratory work. Prerequisite: 300.

**304-4 Economic Geography.** Study of the spatial distribution and interaction of economic activities. Introduction to locational theory. Prerequisite: 300.

**306-4 Cultural Geography.** An overview of the geographic viewpoint in the study of the human occupancy of the earth. Aspects of population, settlement, and political geography are treated, and a generalized survey of major world cultural areas is used to integrate course elements. Prerequisite: 300.



**310-7 (4,3) Cartographic Methods.** Properties of maps and air photos, their uses and sources; Map symbols, map projections and map construction. Introduction to the use of quantitative techniques as applied in geographic study. Laboratory. Prerequisite: 300.

**324-4 Geographic Basis of Resource Management.** Survey of major resources of United States with stress on problems of conservation and restoration. Emphasis on water, mineral, forest, grass, soil, wildlife, scenic, and recreational resources. Field trips.

**GSA 330-3 Weather.**

**GSA 331-3 Climate.**

**343-4 Teaching of Geography.** Presentation and evaluation of methods of teaching geography. Emphasis upon geographic literature, illustrative materials, and teaching devices suitable to particular age levels. Prerequisite: 300.

**GSB 354-3 Industrial Economic Geography.**

**387-2 to 4 Honors in Geography.** Supervised research and investigation in different branches of geography. Open to students in the honors program.

**400-3 Geographic Methods.** Designed to introduce the geographic methods of integrating physical, economic, and cultural elements in the study of areas with the emphasis placed on problem situations. Cartographic and quantitative techniques will be emphasized. Prerequisites: 300, 302, 304, 306.

**402-10 (4,3,3) Advanced Physical Geography I.** Deals with one or more of the following: land forms, climate, soil, and water; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or consent.

**403-7 (4,3) Advanced Physical Geography II.** Content drawn from same broad range of topics as 402. To be alternated with 402 to enable student to specialize further in physical geography. Prerequisite: 302 or consent.

**404-10 (4,3,3) Advanced Economic Geography I.** Deals with one or more of the following: transportation, manufacturing, agriculture, resources, trade and urban geography; depending on, and varying with, interests of instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 304 or consent.

**405-7 (4,3) Advanced Economic Geography II.** Content drawn from same broad range of topics as 404. To be alternated with 404 to enable student to specialize further in economic geography. Prerequisite: 304 or consent.

**406-10 (4,3,3) Advanced Cultural Geography I.** Deals with one or more of the following: population, settlement, ethnic characteristics, political factors; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 306, or consent.

**407-7 (4,3) Advanced Cultural Geography II.** Content drawn from same broad range of topics as 406. To be altered with 406 to enable student to specialize further in cultural geography. Prerequisite: 306 or consent.

**410-8 (4,4) Advanced Geographic Techniques.** Geographic applications of cartographic and quantitative research techniques. Prerequisite: 310 or consent.

**416-8 (4,4) Advanced Cartography.** Instruction and practice in the techniques of map-making and problems in map reproduction. Laboratory. Prerequisite: 310 or consent.

**424-4 Regional Problems in Resource Management.** The distribution, use, and interrelationship of the resources of the U.S. and the conservation techniques applied to them.

**440-2 to 6 Reading for Majors.** Supervised readings in selected subjects. Prerequisite: advanced standing and consent of department.

**461-7 (4,3) Regional Geography: Anglo-America.** Deals geographically with present-day United States and Canada. (a) A general survey of the area, open to students without a concentration; (b) Investigates specific topics in depth, for students with a concentration in geography.

**462-7 (4,3) Regional Geography: Europe.** See 461.



- 463-7 (4,3) **Regional Geography: Mediterranean Lands and Southwestern Asia.** See 461.
- 464-7 (4,3) **Regional Geography: Soviet World.** See 461.
- 465-7 (4,3) **Regional Geography: Africa.** See 461.
- 466-7 (4,3) **Regional Geography: Asia.** See 461.
- 467-7 (4,3) **Regional Geography: Latin America.** See 461.
- 468-7 (4,3) **Regional Geography: Oceania.** See 461.
- 470-20 (4,4,4,4) **Urban Planning.** (Same as Government 470.) (a) Planning concepts and methods; (b) Planning administration and the planning function in public process; (c) Field problems; (d) Urban planning seminar: Planning in a Free Society; (e) Planning and public administration internship. Parts c and d may be taken concurrently. Prerequisites: concentration in geography or consent.
- 471-7 (4,3) **Regional Planning.** Examination of the viewpoint, methods and techniques of regional planning. Prerequisite: Concentration in Geography or consent.
- 480-4 **Workshop in the Teaching of Geography.** Geographic approach to man in space. Skills and techniques in using maps, globes, pictures, statistics, and graphics and in reading the landscape and literature. Prerequisite: consent.
- 490-4 to 16 (1 to 4, 1 to 4, 1 to 4, 1 to 4) **Tutorial in Geography.** Individual and small group conferences with staff members to examine geographic concepts. (a,b,c) Prerequisite: Senior, concentration in geography; (d) Prerequisite: Institute status.
- 500-4 **Geographic Techniques I.**
- 501-4 **Geographic Techniques II.**
- 505-8 (2,2,2,2) **Pro-seminar in Geography.**
- 511-4 **Philosophy of Geography.**
- 514-2 **Teaching of College Geography.**
- 515-4 to 6 **Field Course.**
- 520-2 to 12 **Seminar in Physical Geography.**
- 521-2 to 12 **Seminar in Economic Geography.**
- 522-2 to 12 **Seminar in Regional Geography.**
- 523-4 to 12 **Seminar in Cartography.**
- 524-2 to 8 **Seminar in Cultural Geography.**
- 527-2 to 8 **Seminar in Urban and Regional Planning.**
- 530-2 to 10 **Independent Studies in Geography.**
- 540a-2 to 36 **Research in Physical Geography.**
- 540b-2 to 36 **Research in Economic Geography.**
- 540c-2 to 36 **Research in Regional Geography.**
- 540d-2 to 36 **Research in Cultural Geography.**
- 599-2 to 9 **Thesis.**
- 600-1 to 48 **Dissertation.**

## Geology

- 220-5 **Physical Geology.** A study of the principal minerals and rocks of the earth's crust, emphasizing origin and identification; the physical processes active in producing the surface features of the earth. Laboratory and field trips required.
- 221-5 **Historical Geology.** Presenting in chronological order the procession of physical and biotic changes through which the earth has passed. Includes the physical history and evolution of life forms as evidenced by fossil records. Laboratory. Prerequisite: 220 or consent of instructor, elementary course in zoology or botany recommended.
- 302-4 **Structural Geology.** A study of the forces involved in the deformation of the earth's crust, with special emphasis on the recognition, interpretation, and illustration of the resultant geologic structures. Laboratory. Prerequisite: 220, 221.
- 310-4 **Crystallography.** The study of morphological crystallography including crystal symmetry, Hermann-Mauguin symbolism for the crystal classes, space groups, and solution of problems by means of the stereographic projection. Prerequisite: Trigonometry.
- 311-4, 312-4 **Determinative Mineralogy.** A study of nonsilicate and silicate minerals including the influence of crystal chemistry upon their structures, and physical and chemical properties. Laboratory practice in chemical deter-

mination and sight identification. Prerequisites: 310, Chemistry 111b (concurrently).

**315-4 Petrology.** A study of the characteristics and classification of rocks, their origin and geologic distribution. Laboratory. Prerequisite: 220.

**320-4 Economic Geology.** Study of the geological aspects and origin, as well as the economic and political importance, of mineral resources.

**GSA 321-3 Introduction to Paleontology.**

**GSA 322-3 Rocks and Minerals.**

**410-4 Stratigraphy and Sedimentation.** The characteristic features of sedimentary rocks and their processes of origin; the classification of stratigraphic units, methods of correlation, and paleogeologic reconstruction. Laboratory. Prerequisite: 220, 221.

**414-5 Paleobotany.** (See Botany 414).

**415-4 Optical Mineralogy.** The optical properties of minerals and the use of the petrographic microscope for identification of crystals by the immersion method and by thin section. Laboratory. Prerequisites: 310, Physics 208.

**416-4 X-Ray Crystallography.** Introduction to the study, measurement, and identification of unknown crystalline materials by X-ray diffraction techniques (especially the Debye-Scherrer methods). Upon request, students may work with unknowns from other fields of study. Prerequisites: 310, Mathematics 150.

**420-9 (3,3,3) Geology of Petroleum.** The geological occurrence of petroleum, including origin, migration, and accumulation; a survey of exploration methods and production problems and techniques. Laboratory study applies geological knowledge to the search for and production of petroleum. Laboratory. Prerequisites: 221, 302.

**425-13 (5,4,4) Invertebrate Paleontology.** (a) paleontology principles and a survey of important invertebrate phyla and their fossil representatives; (b) paleoecology and a comprehensive study of Mollusca and Bryozoa; (c) Coelenterata, Brachiopoda and Echinodermata. Laboratory. Prerequisites: 221 or GSA 201.

**430-4 Physiographic Provinces of North America.** Designed to give the student an intelligent appreciation of the evolution of land forms in the physiographic provinces of North America and to explain the surface features in a landscape. Prerequisite: 220.

**431-8 (4,4) Geomorphology and Air Photo Interpretation.** A study of land forms and surface conditions, relating topographic features to the underlying rocks and structure and to processes of erosion, deposition, and earth movements. Laboratories consider techniques of observation, description, and analysis including use of many types of maps, air photos, infra-red, radar, satellite and other geophysical sensing devices. Prerequisites: 220.

**440-1 to 4 Independent Study.** Prerequisites: 220, 221, advanced standing.

**450-9 Field Geology.** A field mapping course including problems in stratigraphy, structure, paleontology, physiography, and economic geology. Requires a written geologic report. Consult the department for dates, cost, and equipment. Prerequisite: 302.

**450b-3 Advanced Field Geology.**

**510-11 (4,4,3) Stratigraphy.**

**515-12 (4,4,4) Mineral Deposits.**

**520-12 (4,4,4) Advanced Petrology.**

**528-3 to 9 Introduction to Micropaleontology.**

**540-1 to 9 Advanced Studies.**

**541-1 to 9 Research.**

**599-2 to 9 Thesis.**

## Government

**231-5 American National Government.** A survey covering the structure, functions, and principles of national government. Also meets social science and American government requirements.

**232-5 State and Local Government.** A survey of the structure and functions of American state and local government. Prerequisite: 231 or GSB 211b.

**300-4 American Government.** An advanced course to satisfy the American government requirements of the College of Education. Deals with the structure and functions of national, state, and local government. Not open to those who have had 231 or GSB 211b.



**GSB 303-3 International Relations.**

**305-5 Development of the American Constitution.** The evolution of the United States constitutional system. Recommended for prelaw students. Prerequisite: 231.

**315-3 Administration of Justice.** The organization and work of the American judicial system. Recommended for prelaw students. Prerequisite: 232.

**321-1 to 6 Readings in Government.** Prerequisite: consent of instructor.

**330-2 Illinois Government.** The development and functioning of government in Illinois. Prerequisite: 232.

**340-3 The Legislative Process.** A study of the principles, organization, and work of American legislative bodies. Prerequisite: 231.

**GSB 345-3 Introduction to American Foreign Policy.**

**360-5 Public Administration.** Principles and problems of administration on the national, state, and local level. Prerequisite: 231.

**361-3 Problems in Public Administration and Policy Formulation.** Intensive examination of problem areas illustrating administrative and management practices in public service and demonstrating linkages between politics and administration in our political system. Prerequisite: 360.

**371-3 Problems of American Foreign Policy.** An analysis of selected problems in the field of American foreign policy. Prerequisite: 231.

**379-4 History of Political Parties.** A study of the historical development of American political parties. Prerequisite: 232.

**380-4 Political Parties.** The development and work of American political parties. Prerequisite: 231 or 232.

**GSB 390-3 Introduction to Comparative Government.****GSB 392-3 Introduction to Latin American Government and Politics.**

**398-4 Government and Law.** Techniques of law, (classification, rights, and duties). Legal personality, public law and private law, criminal law, justice acts. Property, possession and procedure. Prerequisite: 231.

**406-4 The American Chief Executive: President and Governor.** A study of the origin and background of the presidency and the governorship, qualifications, nomination and election, succession and removal, the organization of the executive branch, and the powers and functions of the president and governor. Prerequisites: 231, 232.

**410-3 Labor and Politics.** A political history of the American labor movement from its early 19th century origins to the present. Attention given to the political philosophy and practice of labor unions. Prerequisite: 231.

**415-9 (3,3,3) Political Behavior.** An analysis of the nature of public opinion and methods of influencing political behavior. Major attention given to studying the basic psychological attitudes and behavior. Prerequisite: 231.

**420-3 Pressure Groups and Politics.** An analysis of interest groups and their techniques of political propaganda. Prerequisite: 231.

**430-3 Government and National Security.** A study of the organization of government for national security; the historical and current developments in civil-military relations; the legal status of over-seas military aid programs; international defense programs; and the problem of disarmament. Prerequisite: 231 or consent of instructor.

**432-3 Government and Natural Resources.** A study of the administrative and policy problems in the development of multiple purpose conservation programs by the national government. Prerequisite: 231 or consent of instructor.

**434-3 Government and Agriculture.** An historical and contemporary survey of the role of agriculture in politics, the major and minor farm parties and pressure groups, the elements of the current "farm problem," and the influence of agriculture in public agencies and the formation of public policy. Prerequisite: 231.

**435-4 Government and Business.** An historical study, with contemporary emphasis upon relations between government and economic institutions. Prerequisite: 231 or consent of instructor.

**436-3 Government and Labor.** (See Economics 436.)

**438-4 Social Welfare Legislation.** The Social Security Act and other legislation of major significance for the welfare and maintenance of the family, the handicapped, children, and other special groups. Their relationship to the legal structure of federal, state, county, township, and municipal welfare facilities and institutions with indications of economic and social consequences. Prerequisite: consent of instructor.

**440-4 Public Personnel Administration.** An analysis of some of the central



problems encountered by the government executive in recruiting, maintaining, and developing personnel, such as political neutrality, leadership and motivation, career development, security regulations, and the role of personnel in policy planning and execution. Prerequisite: 360.

**441-4 Philosophy of Politics.** (See Philosophy 441).

**450-12 (4,4,4) Latin American Governments.** The countries covered are (a) those of the Caribbean area; (b) those of South America; (c) this section deals with the governmental relations between the United States and the Latin American nations.

**452-4 Governments and Politics of Sub-Sahara Africa.** A study of the governments and politics of the former and present British and French territories: Ghana, Nigeria, Kenya, Guinea, Congo, Senegal, etc. Prerequisite: GSB 390 or consent of instructor.

**453-12 (4,4,4) The Government and Politics of the Soviet Union.** An intensive study and research exercise in communist government and politics. Prerequisite: 390b or consent of instructor.

**454-8 Development of German Democracy.** Offered cooperatively by Southern Illinois University and the University of Hamburg. Involves a summer's residence in Hamburg, Germany, and study under professors of the two cooperating universities. Prerequisite: consent of the American professor.

**455-4 Major Governments of Western and Central Europe.** A comparative study of the political systems of the major countries of Western and central Europe. Prerequisite: GSB or Government 390 or consent of instructor.

**456-4 Great Britain and the British Empire.** A survey of the governmental institutions and practices within the British Commonwealth, with particular attention to the political systems of Australia, Canada, and South Africa. (The governments of India and Pakistan are treated in 458.) Prerequisite: GSB 390 or consent of instructor.

**457-8 (4,4) Government and Politics in the Near and Middle East.** Iran, Iraq, Syria, Lebanon, Egypt, Jordan, Saudi Arabia, etc. Prerequisite: GSB 390 or consent of instructor.

**458-12 (4,4,4) Government and Politics of Asia.** (a) Burma, Thailand, Malaya, Indochina, Indonesia, Philippines; (b) China, Japan, Korea, Formosa; (c) India, Pakistan, Ceylon. Prerequisite: GSB 390 or consent of instructor.

**461-4 Organizational Theory and Public Administration.** Analysis of various theoretical approaches to public administration with emphasis on recent American literature in this field. Prerequisite: 360 or consent of instructor.

**462-3 Intergovernmental Relations.**

**463-3 Government, Social, and Economic Policy.** Explanation of contemporary agencies of policy determination within the national government; attention to methods and devices utilized to effectuate national social and economic policy within the federal system; appraisal of historical developments, trends, and results as they affect American governmental, constitutional, and political philosophy, public administration, and the general welfare. Prerequisite: GSB 211c or consent of instructor.

**464-3 Regulatory Administration.** A study of the work of the major regulatory commissions of the national government. Prerequisite: 360 or consent of instructor.

**466-3 State Government and Administration.** Leading problems of government and administration of American states. Prerequisite: 232.

**467-4 Municipal Government and Administration.** Development and functioning of city government in the U.S. Prerequisite: 232.

**469-3 Administration of State and Local Finance.** An examination of the administrative problems connected with local and state revenues and expenditures in the U.S. Prerequisite: 232.

**470 Urban Planning.** (See Geography 470).

**471-4 The Organization and Administration of American Foreign Policy.** An advanced course dealing with the organizational and administrative aspects of American foreign policy. Prerequisite: 243 or 371.

**472-4 International Organization.** Development and organization of international government and administrative systems, with emphasis on the United Nations. Prerequisite: GSB 303.

**475-8 (4,4) International Law.** Rules and practices governing the nations in their relations in peace and war. Prerequisite: GSB 303.

**478-4 International Politics.** A study of the interplay of political forces in

the international community. Particular emphasis will be placed on war-time diplomacy, peace treaties, the alignments and conflicts of power in the post-war period. Prerequisite: GSB 303 or consent of instructor.

**480-4 The Pacific and the Far East.** Political and strategic problems in this area. Prerequisite: GSB 303 or History 370.

**484-8 (4,4) History of Political Theories.**

**485-4 Renaissance and Rationalists Political Theories.**

**487-6 (3,3) American Political Ideas.** An historical study of the political ideas of leading American statesmen and publicists, and their resulting influence upon our governmental system. Prerequisite: 305 or GSB 385.

**488-9 (3,3,3) Recent Political Theory.** (a) The outstanding Anglo-American liberal political theorists from John Stuart Mill to the present; (b) The outstanding "scientific" political theorists from Karl Marx to the present; (c) The outstanding idealistic and nationalistic political theorists from Hegel to the present. Prerequisite: GSB 385 or 390.

**495-8 (4,4) American Constitutional Law.** (a) Constitutional law of the United States with emphasis upon cases dealing with the framework of our federal system; (b) American liberties. Prerequisite: 231.

**497-4 Administrative Law.** Law as it affects public officials in carrying out the rights, duties, and necessary functions of the public office. Prerequisite: 360.

**498-4 Jurisprudence.** (Theories of Law.) Major schools in legal thinking. Positive law and natural law. Idea of justice and concept of natural rights. Prerequisite: 231.

**499-4 Scope and Method of Government.** Practical training in research and writing techniques in the field of government. Bibliographical materials, footnotes, use of law library facilities, and government documents. Required of all beginning graduate students.

**500-4 Methods of Empirical Research.**

**501-525 Seminars.**

**501-2 to 9 Seminar in Contemporary Legislation.**

**502-2 to 9 Seminar in Governmental Problems.**

**503-2 to 9 Seminar in Pressure Groups.**

**505-2 to 9 Seminar in Political Parties.**

**506-2 to 9 Seminar in Political Behavior.**

**508-2 to 9 Seminar in International Relations.**

**509-2 to 9 Seminar in International Organization.**

**510-2 to 9 Seminar in State Government.**

**511-2 to 9 Seminar in Local Government.**

**512-2 to 9 Seminar in Public Administration.**

**513-2 to 9 Seminar in Constitutional Law.**

**515-2 to 9 Seminar in Comparative Constitutions.**

**516-2 to 9 Seminar in Municipal Administration.**

**517-2 to 9 Seminar in Problems in Political Theory.**

**520-2 to 9 Seminar in American Foreign Policy.**

**521-1 to 12 Readings.**

**525-2 to 9 Seminar in International Law.**

**530-4 to 12 Internship in Public Affairs.**

**595-2 to 12 Individual Research.**

**598-1 Teaching Government.**

**599-1 to 9 Thesis.**

**600-1 to 48 Dissertation.**

## Guidance and Educational Psychology

**305-4 Educational Psychology.** Study of the learner and the learning process. Includes study of behavior, discipline, development, the school environment, application of learning theories, and methods of assessment. Prerequisite: GSB 201c.

**412-4 Mental Hygiene.** A survey of principles concerning factors and conditions in personal life that tend to facilitate or deter mental health. Mental health viewed as living creatively in an atmosphere of satisfactory interpersonal relations. Prerequisite: 305.

**422-12 (4,4,4) Educational Measurement and Statistics.** (a) Study of the theory and techniques of measurement. Special attention to the construction



and use of teacher-made tests; (b) The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research; (c) Study of standardized tests and other measuring devices to reveal individual and group characteristics. Emphasizes application and interpretation for counseling, education, and research purposes. Prerequisite: 305.  
**426-4 Individual Inventory.** Principles and procedures for studying individual pupils and their problems, for guidance purposes. Emphasis on interview, observation, ratings, case study, cumulative record, etc. Prerequisites: 422b, 442.

**442-4 Basic Principles of Guidance.** Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305.

**475-4 Implementation of Guidance Principles In the Public Schools.**

**481-1 to 6 Seminar.** Conducted by staff members and/or distinguished guest lecturers on pertinent topics. Prerequisite: Consent of instructor.

**485-4 to 9 Workshop in Educational Utilization of Community Resources.**

**501-2 to 6 Special Research Problems.**

**502-4 Measurement and Evaluation of Products and Procedures.**

**503-4 Tests and Measurements in Business Education.**

**511-4 Educational Implications of Learning Theories.**

**515-4 Psychological Aspects of Education.**

**520-8 (4,4) Educational Statistics and Experimental Design.**

**525-4 School Behavior Problems and Their Prevention.**

**526-4 Techniques in Individual Guidance.**

**528-4 Advanced Guidance of the Individual.**

**536-8 (4,4) Individual Measurement and Appraisal.**

**537-12 (4,4,4) Counseling Theory and Practice.**

**541-4 Occupational Information and Guidance.**

**543-4 Guidance through groups.**

**545-2 to 4 Seminars** (selected areas with 2 to 4 hours in each).

**545m-4 Doctoral Seminar in Psychological Foundations of Education.**

**562-8 (4,4) Human Development in Education.**

**565-4 Psychology of Elementary School Subjects.**

**566-4 Psychology of Secondary School Subjects.**

**575a-1 to 12 Practicum in Counseling.**

**575b-1 to 12 Practicum in Elementary Guidance.**

**575c-1 to 12 Practicum in Secondary Guidance.**

**575e-1 to 12 Practicum in College Student Personnel Work.**

**581a-1 to 12 Internship in Counseling.**

**581b-1 to 12 Internship in Elementary Guidance.**

**581c-1 to 12 Internship in Secondary Guidance.**

**590-2 Seminar in Behavioral Foundations.**

**596-5 to 9 Independent Investigation.**

**599-3 to 9 Thesis.**

**600-1 to 48 Dissertation.**

## Health Education

**300-3 Communicable Disease.** A study of the communicable diseases with emphasis on control and principles of prevention, and application of these principles to the individual school and community.

**301-4 Health Education Concepts, Advanced.** A survey of health sciences applied to healthful living. The dynamics of health and environment, behavior fitness, disease, addiction, habituation and population control.

**302s-4 Driver Education and Training.** To prepare the college student for teaching driver education and training in the secondary school. Prerequisite: a valid driver's license.

**305-4 Principles and Foundations of Health Education.** Introduction to philosophy and history of health education as well as functions of the school health department and voluntary agency interaction in the health education program. Prerequisite for all 300 and above.

**310-4 Home Nursing.** Theory, practice, and demonstration concerning equipment, care of patient and sick room, maternity and child care, recognition of common symptoms of disease, administration of simple treatments.

**311-4 Child Development.** Physical development of the child beginning with



the study of pregnancy, prenatal and maternal care continuing with overview of development from birth through puberty.

**312-4 Emotional Health.** Concepts of positive emotional health as related to teacher and parent in terms of influences on the child in the classroom and community.

**313s-4 Introduction to Safety Education.** Prepares for safety education in the public schools. Concerns safety as a social problem, development of safety skills, accident causes, teacher liability, research in the field.

**323s-4 Methods and Materials in Safety Education.** To acquaint student with material aids and methods, techniques in the teaching of safety education at elementary and secondary school levels.

**325-3 Community Health Problems.** Problems of a community health nature are treated and methods outlined to meet the problems. Areas include community health organization, problems of the environment, food, sanitation, and disease. Epidemiological process stressed.

**330-4 Consumer Health.** Legislation on state and federal levels affecting the health of the consumer; official agencies serving as watchdogs of consumer health; non-official agencies (AMA, CU, etc.) doing the same job; health and medical protection in the form of insurance, group practice, prepayment, etc.; health hazards of the space age; false and misleading information and advertising in health and medicine; cultists and faddist and their effect on the health of the consumer; media and publications and consumer health.

**334s-4 First Aid.** Red Cross First Aid Course with lectures, demonstrations, and practical applications. Red Cross Instructor's Certificate given.

**350-4 Health Education Methods and Materials for Elementary Teachers.** Designed to show the prospective teacher fundamental processes, techniques, and material aids involved in elementary school health teaching.

**355-4 Introduction to Public Health.** Philosophy, organization, administration, and functions of federal, state, and local, official and voluntary public health agencies. Periodic field trips involved.

**356-5 Public Health II.** An examination of specific public health problems and measures of control. Intended for health science students only.

**365-4 Problems of Health Education in the Public Schools.** Study and observation of existing health education problems in the public schools; of recent developments in education and their influences upon the school health program.

**376-4 Workshop in Health and Nutrition.** (Same as Food and Nutrition 376.)

**400-4 Health Appraisal of School Children.**

**405-3 Methods and Materials in Social Hygiene.**

**413s-4 Safe and Healthful Living Outdoors.**

**415s-3 to 4 Workshop in Driver Education and Traffic Safety.**

**443s-4 Methods and Materials in Driver Education.**

**450-4 Health Education in the Elementary School.**

**460-4 School Health Programs.**

**461-4 to 8 Workshop in Health Education.**

**462-4 Health Education Workshop.**

**463-1 to 4 Workshop in Health Education with Emphasis in Disaster Preparedness.**

**464-4 Workshop in Alcohol Education.**

**471-4 Organization, Administration and Curriculum in School Health.**

**475s-3 Traffic Law Enforcement and Planning.**

**480s-4 Workshop in Safety Education.**

**481s-4 Safety Education Workshop.**

**485-4 International Health.** A survey and analysis of the health beliefs, values, and practices of peoples in other cultures, with particular attention to how these beliefs and practices fit into a total way of life. An international orientation of potential value to both prospective teachers and students in other fields.

**488-4 Educational Aspects of Environmental Sanitation.**

**489-4 Introduction to Vital Statistics.**

**490-2 to 8 Field Work in School and Community Health.**

**491-4 Health Teaching Methods-Advanced.** An intensive study of and practice at various dimensions of teacher-student relations in the classroom with emphasis on the multiple roles of the teacher. Prerequisites: 305, 471 or consent of instructor.

**500-4 Community Organization for Health Education.**

- 510-4 Construction of the Curriculum in Health Education.
- 511-5 Practicum in Health Education Workshop.
- 515-4 Review Current Literature in Health Education Public Health and Safety Education.
- 520-4 to 6 Special Projects.
- 525s-4 Organization Administration and Supervision of Safety Education.
- 526-4 Evaluation in Health Education.
- 530s-4 Problems and Research in Accident Prevention.
- 533-12 (4,4,4) Human Conservation.
- 536-4 Professional Preparation in Health Education.
- 590-4 to 12 Field Internship.
- 597-3 (1,1,1) Seminar.
- 599-3 to 9 Thesis.
- 600-1 to 48 Dissertation.

### Higher Education

- 402-2 Careers in Higher Education. An exploratory course designed to acquaint the student with the career possibilities and functions of higher education.
- 510-4 Higher Education in the United States.
- 512-4 Higher Education in Selected Nations.
- 513-4 Organization and Administration in Higher Education.
- 515-4 College Student Personnel Work: Operations and Policies.
- 516-4 College Student and College Culture.
- 518-4 College Teacher and College Teaching.
- 522-1 to 12 Readings in Higher Education.
- 523-1 to 12 Internship in Higher Education. (Selected areas.)
- 524-2 to 6 Individual Study.
- 535-2 to 28 Higher Education Seminar I.
- 545-3 to 15 Higher Education Seminar II.
- 551-4 Curriculum Design and Policy.
- 555-4 Philosophy of Higher Education.
- 565-4 The Community-Junior College.
- 578-4 Economic Aspects of Higher Education.
- 589-4 to 6 Advanced Research.
- 599-1 to 9 Thesis.
- 600-1 to 48 Dissertation.

### History

- GSB 300-9 (3,3,3) History of the United States.
- 304-9 (3,3,3) History of the Ancient World. (a) The Near East; (b) Greece; (c) Rome. May be taken individually or in any sequence.
- 308-3 History of Illinois. The history of the state from 1818 to the present. Recommended for students with a concentration in history and those who expect to teach in elementary schools.
- 309-4 The Negro in America. The role of the Negro in America from the seventeenth century to the present with emphasis on the period since 1865.
- 312-3 Central Europe in the Nineteenth Century. An analysis of the rise of nationalism with emphasis on Germany and Italy and of the problems of the Austro-Hungarian Monarchy. Prerequisites: GSB 101b,c.
- 322-12 (4,4,4) English History. (a) Britain to 1603; (b) 1603-1815; (c) since 1815. May be taken individually or in any sequence.
- GSB 323-3 East and West in the 20th Century-Origins and Prospects.
- 330-3 The Revolution and the Constitution. A study of the conflicting forces which produced the American Revolution, led to the creation of the federal union and shaped the early republic.
- 332-9 (3,3,3) Medieval History. (a) Early Middle Ages, 500-1000, (b) High Middle Ages, 1000-1300, (c) Late Middle Ages, 1300-1500. Prerequisite: sophomore standing.
- 352-9 (3,3,3) History of Latin America. (a) Colonial Latin America; (b) Independent Latin America; (c) Latin America in World Affairs. May be taken individually or in any sequence.



- 365-4 History of Chinese Civilization.** A study of the march of Chinese civilization from prehistoric times to the present, stressing social structure, government institutions, and intellectual movements.
- 367-6 (3,3) History of the Far East.** (a) Introduction to 1800; (b) 1800-1945. May be taken singly or in either sequence.
- GSB 369-3 The Contemporary Far East.**
- 372-6 (3,3) History of Russia.** (a) To 1905; (b) Since 1905. May be taken individually or in any sequence. Prerequisite: GSB 101b,c.
- GSB 380-6 (3,3) East Europe.**
- 401-6 (3,3) History of the South.** (a) The Old South; (b) The New South. An intensive study of the social, economic, political and cultural developments of the South.
- 405-3 The American Civil War.** Emphasis upon the clash of national and sectional interests; economic, political, and military aspects of the conflict. Prerequisite: GSB 300b, or consent of instructor.
- 410-2 to 5 Special Readings in History.** Supervised readings for students with sufficient background. Registration by special permission only. Offered on demand.
- 411-9 (3,3,3) Social and Intellectual History of the United States.** (a) 1607-1830; (b) 1830-1900; (c) 1900 to present. The development of American society and a study of various types of economic, social, and political thought that have influenced it.
- 414-9 (3,3,3) Intellectual History of Modern Europe.** (a) The Enlightenment; (b) The 19th century; (c) The 20th century.
- 415-9 (3,3,3) Early Modern Europe.** (a) Renaissance; (b) The Reformation; (c) Age of Absolutism. Prerequisite: GSB 101b,c.
- 417-9 (3,3,3) Advanced English History.** (a) The Empire-Commonwealth; (b) Constitutional History; (c) English Culture in the Age of American Colonization; (d) Tudor England.
- 420-3 The French Revolution.** A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.
- 421-9 (3,3,3) Europe in the Nineteenth Century.** (a) 1789-1815, (b) 1815-1870, (c) 1870-1900. An advanced survey emphasizing economic, social, and intellectual developments.
- 425-6 (3,3) American Colonial History.** (a) Discovery and Settlement; (b) British Imperial structure-American independence.
- 430-9 (3,3,3) Late Modern Europe.** (a) Age of Revolution, 1815-1880; (b) 1880-1918; (c) Since 1918. Age of Dictatorships.
- 431-9 (3,3,3) Europe in the Twentieth Century.** (a) 1900-1919, (b) 1919-1939, (c) 1939 to present. An advanced survey emphasizing economic, social and intellectual developments.
- 435-12 (3,3,3,3) Advanced American History.** (a) 1865-1896, (b) 1896-1919, (c) 1919-1939, (d) 1939 to present. Prerequisite: GSB 300-9.
- 440-6 (3,3) History of American Diplomacy.** (a) To 1913; (b) 1913 to present. A study of the important treaty relations of the United States, and a general consideration of American foreign policies. Prerequisites: GSB 300a,b, or consent of instructor.
- 442-9 (3,3,3) History of the West.** (a) Colonial; (b) Trans-Allegheny; (c) Trans-Mississippi.
- 448-3 Introduction to the History of Southeast Asia.** A survey from the earliest times with emphasis on the recent and contemporary developments.
- 449-3 Development of Afro-Asian Nationalism.** A study of the rise of national movements, the winning of independence, and the vast array of political and economic problems since independence.
- 451-3 Historiography.** Development of history as a written subject, including works and philosophy of the various historians in ancient, medieval, and modern periods.
- 452-3 Historical Research and Thesis Writing.** The rules of historical research studied and applied to a definite topic. (For concentrations in history only.)
- 455-3 History of Inner-Asian Relations.** Tribes, migrations, wars, and power politics in Central Asia and outlying areas of China from Han times through 19th century rivalries to latest developments along the Sino-Soviet frontier.
- 460-9 (3,3,3) Social and Intellectual History of the Middle Ages.** (a) 500-1000; (b) 1000-1250; (c) 1250-1500.



- 470-3 Argentina, Brazil, and Chile.** A narrative and comparative study of the independent era of the history of the three leading states of South America.
- 471-6 (3,3) History of Mexico.** (a) 19th century; (b) 20th century. Significant political, economic, diplomatic, social, and cultural aspects of Mexican life from independence to modern Mexican life.
- 473-6 (3,3) The Caribbean Area.** (a) In the 18th and 19th centuries, (b) in the 20th century.
- 475-6 (3,3) Dictatorships in Latin America.** (a) the 19th century; (b) the 20th century. A political, economic, social and military study of the domestic and international aspects of dictatorship. Prerequisite: Junior standing or higher.
- 500-12 to 30 (4 to 10 each) History Seminar.** (a) American history; (b) European history; (c) Latin American history.
- 510-2 to 5 Readings in History.**
- 511-3 Studies in the Middle Ages.**
- 512-3 Studies in Nineteenth Century Europe.**
- 514-3 Studies in Asian History.**
- 515-3 Current United States History and Problems.**
- 516-4 Studies in Contemporary Europe.**
- 517-3 Constitutional History of the United States and Problems.**
- 518-3 England in the Age of the "Glorious Revolution."**
- 519-6 (3,3) The Age of Jefferson.**
- 520-6 (3,3) Sectionalism and Reform.**
- 553-3 New Viewpoints in American History.**
- 574-3 United States-Mexican Relations.**
- 575-9 (3,3,3) Studies in Latin American History.**
- 598-3 (1,1,1) Teaching History in College.**
- 599-1 to 9 Thesis.**

### Home and Family

- 227-3 Family Living.** A study of relationships and adjustments in family living, designed largely to help the individual.
- 237-3 Child Development.** Principles of development and guidance of children as applied to home situations. Directed observation involving children of varying ages.
- 300-3 Home Economics for Men.** Units dealing with food selection, serving, and table practice; economics of the home; grooming and clothing selection; family relations; consideration of personality evaluation. Field trip.
- 301-3 Home Arts and Social Usage.** Emphasis on the home arts and social usage that will provide for more satisfying personal and family living. For women who are not concentrating in home economics.
- 302-4 Basics of Family Living.** Job oriented course for social welfare workers; selected units in several aspects of homemaking with application to the low income family.
- 323-2 Housing.** Housing needs of families. Housing design, plans, and construction. Historic modes of housing.
- 324-3 Equipment.** Selection, use, and care. Field trips.
- 331-3 Management of Family Resources.** A study of factors affecting the management of the home in meeting the needs of individuals and creating a satisfying environment for the family. Special consideration given to those problems involving the use of time, money, and energy.
- 332-4 Home Management Residence.** Six weeks' residence in Home Management House, with actual experience in different phases of homemaking. Field trip. Prerequisites or required concomitants: 227, 331.
- 341-4 Consumer Problems.** Study of motives of consumption, family income and expenditures, selection of commodities and services, buying and selling practices, and evaluation of consumer aids. Consideration of contemporary consumer problems. Field trips.
- 345-5 (2,3) Child Development Practicum.** Observation and participation in the guidance of pre-school children. (a) Preparation and use of materials; equipment and activities. One hour lecture, 2 hours laboratory; (b) Planning and executing a variety of experiences for preschool children. One hour seminar, 3 hours laboratory. Part b may be elected independently of a.
- 366-3 Family Development.** Study of changing patterns in family living

throughout the family life cycle. Prerequisites: 227 or GSB 341.

**407-2 to 8 Workshop.** Designed to aid workers in professions related to home and family. Emphasis for the workshop will be stated in the announcement of the course.

**423-4 Advanced Family Housing.** Further appreciation and understanding of aesthetic, economic, psychic, and social factors influencing choice of family housing today. Prerequisite: 323 or consent of instructor.

**424-4 Selection, Use, and Care of Appliances.** Materials used in equipment, methods of construction, principles of operation of appliances for cooking, refrigeration, laundering, cleaning; selection, operation, and care of appliances to obtain maximum satisfaction in use. Prerequisite: 324 or consent of instructor.

**435-4 Work Simplification in Home Management.** Basic scientific work simplification principles applied to work done in the home by full-time, employed or physically handicapped homemakers.

**456-4 Infant Development.** Current theories and knowledge concerning growth and development of infants with related laboratory and field experiences. Prerequisite: 237 or Psychology 301 or equivalent.

**466-2 Practicum in Parent-Child Study.** Designed to increase student's ability to work with parents and parent groups through an awareness of factors in the parent-child relationship and knowledge of current research and methods in parent education. Integration with infant and child development laboratories and related field experience. Prerequisites: 227, 237 or equivalent.

**471-2 to 6 Field Experience.** Opportunity for supervised learning experiences in selected areas. Prerequisite: Consent of departmental chairman.

**481-2 to 6 Readings.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman.

**500-4 Research Methods.**

**540-4 Trends in Consumer Problems.**

**550-4 Advanced Home Management.**

**556-4 The Pre-School Child.**

**562-4 Child Development Through Home and School.**

**566-4 Interpersonal Relationships Within the Family.**

**571-4 Recent Research.**

**572-2 to 8 Special Problems.**

**599-5 to 9 Thesis.**

**600-3 to 48 Dissertation.**

### Home Economics

The Home Economics Honors courses are listed below. In each course, the subject matter depends upon the needs and interests of the students.

**305-2 to 6 Home Economics Honors Seminar.**

**306-2 to 6 Home Economics Honors Seminar.**

**387-2 to 8 Special Problems-Honors.**

**388-2 to 8 Research and Investigations-Honors.**

### Home Economics Education

**111-2 Home Economics Orientation.** Surveying professional opportunities in home economics; planning for the development of personal and professional proficiencies.

**306-2 Seminar and Readings in Home Economics Education.** A philosophical approach to the field of home economics. Social, psychological, anthropological, economic considerations as held by home economists and others in relation to the professions in the field of home economics and for homemaking in a democratic society. Offered alternate years.

**307-3 Methods of Teaching for Dietetics Majors.** Designed as preparation for the teaching role of the dietitian. Selection and organization of materials. Practice in using a variety of techniques and teaching aids. Offered alternate years.

**309a-3 Program Planning in Home Economics.** Philosophy; the total vocational program in home economics education; developing files. Student should



register for 313-1 concurrently or prior to 309 for the pre-student teaching and September Field Experience. Prerequisite or concurrently Guidance 305; Secondary Education 310.

**309b-3 Methods of Teaching in Home Economics.** Curriculum, unit and lesson planning, methods, techniques, and teaching aids; completing files. Prerequisite: 309a. To be taken the quarter preceding student teaching.

**310-4 Evaluation and Adult Education.** Using and developing instruments for evaluation with respect to goals of a family-community centered home-making program and preparing students to carry on adult education. Prerequisites: 309 and Secondary Education 352b concurrently.

**313-2 to 4 Special Problems.** For students recommended by their chairman and approved by the chairman of their department and the instructor in charge for independent, directed study. Prerequisite: 309.

**370-5 History, Development, and Principles of Extension Work.** A study of the history, development, organization, and purposes of extension work. Discussion of problems and principles of conducting and administering extension work in home economics. Field trips. Offered alternate years.

**371-6 Field Experience.** Six weeks of observing and assisting a county home adviser. Opportunity for supervised learning experiences in various phases of extension work. Prerequisite: 370.

**414-4 Home Economics for Elementary Teachers.** Units of work in nutrition, school lunches, family and social relationships, textiles, and clothing.

**415-1 Introduction to Graduate Study.** Seminar to orient the student to graduate work through relation of courses to goals of program, standards of work, habits of thinking, communication of ideas, uses of professional materials and publications. Required. Students should take at first opportunity.

**481-2 to 6 Readings.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman of department.

**500-4 Research Methods.**

**505-4 Home Economics in Secondary Schools.**

**506-4 Evaluative Procedures in Home Economics.**

**507-2 to 8 Workshop.**

**510-4 Supervision of Home Economics.**

**510a-1 to 4 Practicum in Supervision.**

**515-4 Trends in Home Economics Education.**

**516-4 Advanced Methods of Teaching Home Economics.**

**517-4 Methods and Materials for Adult Programs in Home Economics.**

**571-4 Recent Research.**

**572-2 to 8 Special Problems.**

**573-1 to 6 Seminar: Research in Home Economics.**

**599-5 to 9 Thesis.**

**600-3 to 48 Dissertation.**

## Industrial Technology

**212-9 (3,3,3) Wood Science and Technology.** (a) Wood science; a study of the structure and properties of wood; (b) New wood products and their industrial uses; (c) Modern industrial processes in wood technology including plant layout and production management. Laboratory. Must be taken in a,b,c sequence. No prerequisite.

**300-12 (4,4,4) Plastic Materials and Processes.** (a) An introduction to the general field of plastics. History, development, commercial materials, and processing will be explored; (b) Thermoplastics, including a study of the materials, equipment, design, tooling, and techniques of forming; (c) Thermo-setting plastics and specialized processing and converting, including advanced techniques and experimental development with all types of plastics. Laboratory. May be taken in any sequence. Prerequisite: GSA 101b.

**304-9 (3,3,3) Architectural Drafting and Design.** (a) Basic room planning, analysis of family needs, utilization of building sites, and developing preliminary plans; (b) Preparation of house plans, including elevations, details, plot plan, and service plans; (c) Advanced residential planning and designing; standards, codes, specifications, and research. Laboratory. Must be taken in a,b,c sequence. Prerequisite: one course in high school drafting or sketching.

**305-9 (3,3,3) Technical Illustration.** (a) Basic pictorial illustration, axonometric projection methods and rendering; (b) Basic pictorial illustration,



perspective projection methods and rendering; (c) Idea computation, detail, assembly, oblique, diagrammatic and axonometric sketching, manufacturing, maintenance, and assembly illustration. Integrated system schematics. Laboratory. Must be taken in sequence. Prerequisite: Technology 101a.

**306-9 (3,3,3) Industrial Design.** (a) Basic design with industrial materials. (b) Advanced design problems with opportunity for concentration in one or two areas of industry; (c) Applied industrial design through cooperative arrangements with industry. Laboratory. Must be taken in sequence. Prerequisite: Technology 101a.

**309-12 (4,4,4) Graphic Arts.** (a) An introduction to the basic fundamentals of graphic arts such as layout, type composition, presswork, bookbinding, silk screen and linoleum block techniques; (b) Continuation of fundamentals with special emphasis on typographic design, further experiences in letterpress, lithography, copy preparation, and plate making. Laboratory. Must be taken in sequence. Prerequisite: one course in drafting.

**312-9 (3,3,3) Wood Products and Processes.** (a) Introduction to processing of wood materials and use of the basic industrial tools and machines; (b) Industrial jigs and fixtures of the wood industry and their use in production techniques; (c) Custom design and fabrication with wood materials and research on industrial technology in processing. Laboratory. Must be taken in sequence. Prerequisite: one course in drafting.

**314-9 (3,3,3) Casting and Metal Forming Processes.** (a) Analysis of sand, permanent mold, die casting, investment, shell mold and centrifugal casting processes including mold cavity design, testing instrumentation, and production equipment; (b) Process analysis of fundamental metal forming techniques—shearing, bending, drawing, coining, embossing, spinning, and lancing. Advanced instruction in the newer techniques of explosive, ultrasonic, and electro-discharge forming and powder metallurgy; (c) Analysis of the hot and cold forging processes; basic ferrous and non-ferrous material processes such as extrusion, rolling, wire drawing, continuous casting, and tubing. Lecture, laboratory. Prerequisite: Mathematics 111a or equivalent. Sequence preferred but not required.

**316-9 (3,3,3) Industrial Covering.** (a) Basic materials and processes used in surface coverage and decoration of forms, frames and bodies; (b) Fabric and plastic material and processes used on firm and cushioned surfaces; (c) Techniques and processes in flat surface coverings such as plastics, ceramics, metal, etc. Laboratory. May be taken in any sequence. No prerequisite.

**318-9 (3,3,3) Industrial Welding.** (a) Fundamentals in the techniques, care and use of oxyacetylene and electric arc welding and flame-cutting equipment on the common metals; (b) Advanced instruction in the use of oxyacetylene, electric arc, inert gas, and special procedures used in fabricating ferrous and nonferrous metals and alloys; (c) Theory of fundamental welding processes including design, strength, and production equipment. Advanced instruction in electron beam, laser, and ultrasonic welding. Other metal joining techniques such as riveting, stitching, adhesive bonding, brazing and soldering. Lecture, laboratory. No prerequisite.

**320-12 (4,4,4) Industrial Crafts.** (a) Basic designing, decorating, and fabricating of a variety of craft materials such as reed, textiles, plastics, leather, ceramics, wood, and metal; (b) Continuation of basic fundamentals with special emphasis on art metal techniques and processing; (c) Emphasis upon creative design and new techniques with all craft media, but special emphasis on leather and industrial fabrics. Laboratory.

**322-9 (3,3,3) Machining of Metals.** (a) Introduction to machine shop theory and practice: provides practice and information in using the basic machine tools; (b) Provides techniques and information in using basic and specialized machine tools; (c) Provides additional procedures and information in the use of specialized machine tools with emphasis on production problems. Laboratory. Must be taken in sequence. Prerequisite: one course in drafting.

**325-9 (3,3,3) Metal Removal Processes.** (a) Automatic and specialty production equipment systems and the newer metal removal techniques of chemical, electro-discharge, and ultrasonic machining. Production analysis for economy, quality and service; (b) Machineability criteria—the interrelationship of speed, tool geometry, cutting forces, surface finish, cutting temperature, horsepower, geometric tolerances, cutting materials, work materials, depth of cut, feed and economics. Properties and structure of carbide, high speed steel, ceramic, diamond and abrasive cutting materials; (c) Numer-



ically controlled production. Lecture, laboratory. Sequence preferred but not required. Prerequisite: Mathematics 111a.

**327-9 (3,3,3) Materials, Processes, and Fabrication of Metals.** (a) Study of the basic tools, materials and processes used in a number of metalworking areas; (b) Designing, planning and fabrication of metal products; industrial processes and mass production applications; properties of metals; (c) Basic processes, materials, and equipment in forming, fabrication, and decorating of metal products with special emphasis on the nonferrous metals and alloys. Laboratory. May be taken in any sequence. Prerequisite: one course in drafting.

**332-9 (3,3,3) Power Mechanics.** (a) An introduction to the fundamentals of power development, generation, and transmission, including such areas as heat engines, hydraulics, wind, electrical levers, and gears; (b) Continuation of fundamentals of power with special emphasis on fuel type engines, their design, construction, operating principles, and major operating systems; (c) Automotive internal combustion engines, chassis and power transmission. Emphasis on construction, operation and care. Laboratory. Must be taken in sequence. No prerequisite.

**337-9 (3,3,3) Manufacturing Processes.** (a) Properties and structure of metals and plastics. Fundamental principles of the casting and forming processes. Fundamental principles of metal removal, metal joining, and metrology; (b) A study of fabrication, assembly, and methods of manufacture with emphasis on machine tools, automatic machines, and correlation of design with materials and processes; (c) Application of physical and chemical principles in the solution of industrial process problems. Material and energy balance. Introduction to equilibrium and rate relations. Economic factors. Lecture, laboratory. No prerequisite.

**341-9 (3,3,3) Maintenance, Layout and Material Handling.** (a) Care, repair, sharpening, and maintenance of cutting tools, hand tools, portable power tools, and machine tools. Prerequisite: 312a, 327a; (b) Preventative maintenance procedures, maintenance shop organization, and equipment maintenance problems; (c) Fundamentals of plant layout and materials handling. Prerequisite: junior standing.

**342-9 (3,3,3) Industrial Finishes.** (a) Methods, tools, and equipment used in finishing the common industrial materials; surface preparations; application procedures, types of finishes; and restoring and refinishing techniques; (b) Industrial materials, processes and equipment used in applying protective and decorative coatings; spraying techniques and testing procedures used on industrial finishes; (c) Composition, properties, and performance of industrial finishes, metallic and organic coatings; management and theory of colors; and new industrial finishing processes. Laboratory. Must be taken in sequence. Prerequisite: 312a, 327a.

**343-9 (3,3,3) Electricity-Electronics.** (a) An introduction to electricity and electronics; (b) Introduction to vacuum tubes and associated circuitry; (c) Advanced application of electronic theory with emphasis on electronic control circuits. Laboratory. Must be taken in sequence. No prerequisite.

**345-9 (3,3,3) Industrial Electronics.** (a) Study of basic principles, concepts, and techniques in industrial application of electronics; (b) Analyses of complex circuits for fundamental principles and concepts which facilitate trouble shooting of industrial equipment; (c) Principles and concepts involved in multivibrators, oscillators, pulse generators and computer circuits. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 343a.

**351-9 (3,3,3) Product Control.** (a) Control of size and geometric specifications with emphasis on comparative gauges and work holding devices. Laboratory; (b) Quality control and inspection systems; (c) Production and inventory control systems with emphasis on cost analysis. Prerequisite: junior standing.

**371-12 (4,4,4) Graphic Arts Technology.** (a) Machine composition, including keyboard operation, nomenclature, use, care, and operation of line-casting machines; (b) Offset lithography, including camera work, plate making, and press work; (c) Printing design, including type design, commercial layouts, color, papers, cover design folders, booklets, bookbinding, presswork, printing economics, advanced lithography, advanced machine composition, and advanced printing mechanics. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 309a.



## Instructional Materials

**301-2 The Instructional Materials Approach to Learning.** An introductory course to the study of instructional materials. A survey of the history of libraries and audio-visual centers; the complete range of materials of teaching with their unique and common characteristics; the background of the school instructional materials program.

**308-4 Introduction to Cataloging.** Organization of library materials for effective service. Acquisition, classification, cataloging, preparation, preservation, and circulation. Laboratory assignments.

**400-2 Library Research Methods.** Introduction to the use of library materials in graduate research. Includes a survey of scholarly publishing and the use of reference works in various subjects.

**403-4 School Library Functions and Management.** Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.

**405-4 Library Materials for Children.** Study of the aids, methods, and criteria for the selection and use of books and other instructional materials for children in the elementary schools. Open to juniors with consent of instructor.

**406-4 Library Materials for Adolescents.** A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school. Open to juniors with consent of instructor.

**407-4 Basic Reference Sources.** Evaluation, selection, and use of reference sources for elementary and secondary school libraries. Principles and methods of reference service.

**410-4 Public Library Administration.** The administration of municipal, county, and regional libraries, both large and small, with emphasis on meeting the needs of different types of communities.

**413-4 Cataloging of NonBook Materials.** The classification, cataloging, preparation and circulation of all types of nonbook materials such as films, filmstrips, slides, realia, etc. Prerequisite: 308.

**417-4 Audia-Visual Methods in Education.** Selection and utilization of instructional materials in the learning environment, elementary through adult levels. Audio and visual materials and procedures are emphasized with some attention given to bibliographies and reference books for teachers.

**420-4 School Library Activities and Practice.** Supervised practice and observation integrated with instruction in the typical activities of school librarianship: storytelling, publicity, developing units of library instruction, and work with students. Prerequisites: 308, 403, 405, or 406, 407.

**440-2 Photography for Teachers.** Techniques of picture-taking and the preparation of color slides of community resources for use in classroom instruction and for school public relations.

**445-4 Preparation of Teacher-Made Audio-Visual Materials.** Laboratory practice in the preparation of bulletin boards, opaque materials, models, slides, recordings, feltboards, and other graphic materials. Prerequisite: 417 or consent of instructor.

**448-4 Supervision and Administration of an Audio-Visual Program.** Provides professional information and training for anyone who has administrative responsibilities for an audio-visual program. For teachers, coordinators, or directors. Prerequisite: 417 or consent of instructor.

**450-2 Classroom Teaching with Television.** Classroom utilization of open and closed circuit television. Emphasis is placed on the changed role of the classroom teacher who uses television. Evaluation of programming, technicalities of ETV, and definition of responsibilities are included. Demonstration and a tour of production facilities are provided.

**457-4 Radio and Television in the Classroom.** Educational programs and their value to the teacher in the classroom. Sample tapes of radio programs and kinescopes are used.

**458-4 The Medium of the Motion Picture.** A study of the full range of expression by motion pictures including the documentary, theatrical, educational, experimental, and industrial films. Representative films are screened.

**470-4 Program Automated Instruction.** The principles and practices of writ-



ing both linear and intrinsic types of programmed instruction with emphasis on pictorial and performance branches. Individual experience in planning and producing programs.

510-4 Mass Communications in Education.

514-4 Survey of Research and Development in Instructional Materials.

523-4 Seminar on Junior College Librarianship.

530-4 History of Books and Libraries.

546-4 Integration of Audio-Visual Materials in the Classroom.

547-4 School Film and Filmstrip Production.

549-4 Visual Learning.

554-4 Administration of an Instructional Materials Center.

560-4 Seminar in Instructional Materials.

576-2 to 8 Problems in Instructional Materials.

599-5 to 9 Thesis.

600-1 to 48 Dissertation.

### Journalism

100-1 Current Events. Contemporary events in the modern world and their treatment in the newspaper and periodical press. May not be counted toward the journalism concentration.

101-3, 102-3 Introduction to Journalism, I, II. Development of the newspaper and other media in America; role of the press in modern society.

103-3 News. Study of the newspaper story with experience in writing and rewriting news; the fundamentals of copyreading.

201-3, 202-3, 303-3 News Writing and Editing I, II, III. How to cover assignments and write news stories; preparation of copy for publication; writing headlines; laboratory exercises.

265-4 Machine Composition. (See Printing and Photography 265.)

297-3 Introduction to Magazine Journalism. The magazine as a journalistic medium. Its varied divisions in general circulation, professional, technical, industrial, and specialized publications. The nature and extent of magazine work: staff and free lance.

330-3 Editorial Writing. The work and responsibility of the editor and editorial writer with emphasis upon editorial writing and thinking. Editorial problems, methods, policies, and style.

345-3 History of Journalism. Development of American journalism with emphasis upon the struggle for freedom of the press, leading editors, outstanding newspapers and periodicals.

346-3 Comparative Journalism. Analysis of editorial and management policies and methods of American newspapers, with particular reference to economic and social factors affecting them.

350-3 The Community Newspaper. The small newspaper recognized as a distinct medium, performing a specialized function for its readers. Equal weight given to the problem of news presentation and to leadership with careful examination of news and editorial policies of representative newspapers.

351-3 Community Newspaper Management. Organization, operation, and policy of the revenue departments of the weekly and small daily newspapers with special attention to the circulation procedures, retail, general, and classified advertising problems, and other phases of management.

360-12 (4,4,4) Publications Photography. See Printing & Photography 360.

369-3 Magazine Writing. The writing of magazine articles by the free-lancer and staff member. Prerequisites: 103, 201, 202.

370-3 Principles of Advertising. Advertising fundamentals in relation to modern business activities; economic and social aspects, research, media, appeals, production, schedules. Prerequisite: Economics 205.

371-3 Advertising Salesmanship. Practical application of the principles of advertising copy and layout as related to the mechanics and psychology of space selling. Students engage in daily work with newspaper advertisers, handling specific assignments in various lines of business. Prerequisite: 370.

372-5 Advertising Copy, Layout, and Production. The principles and practices in the preparation of copy and layout for all types and forms of advertising, as well as study of the processes involved in the production of advertising.

373-3 Advertising Media and Markets. Manufacturers' advertising procedures



related to campaigns, markets and market research, media, and organization of the advertising function. Prerequisite: 370.

**374-3 Advertising Policies and Problems.** Application of advertising principles to merchandising, sales, promotion, research. Prerequisite: consent of instructor.

**376-4 Advertising Campaigns.** Application of advertising principles and skills to the solution of a specific problem; coordination of strategy and technique. Prerequisite: consent of instructor.

**382-3 Newspaper Promotion and Circulation.**

**383-6 (3,3) Newspaper Production Management.** Organization and function of the mechanical department; costs and cost accounting; personnel problems.

**390-3 Advanced Reporting.** Covering city council meetings, courthouse, city hall, courts, society, and other special assignments.

**391-3 Feature Writing.** How to plan and write newspaper features and special articles.

**392-3 Reporting Special Events.** Experience in planning and executing coverage of conventions, expositions, and tours; special editions; interpretative news stories.

**393-3 Publicity Methods.** Not open to students with concentration in journalism. Designed for students who do not plan a career in writing, but desire guidance and practice in writing for newspapers and magazines about their fields of specialization.

**394-3 Agricultural Journalism.**

**396-3 Editorial Production.** Practical work in details of planning and producing one or more issues of a newspaper. Field trips.

**397-3 Special Publications.** The function and operation of industrial, trade, and business publications. Relationships of management and personnel through the editorial policies and practices of such special publications.

**398-3 Magazine Production and Layout.** The editorial and production functions of the magazine. Application of the principles of article layout and makeup to editorial content. Relationships with printing production.

**399-1 Senior Seminar.** Contemporary newspaper policies as related to professional journalism. To be taken in the student's last quarter.

**401-3 International Journalism.** A study of the history, development, current status and implications of the press and news services of other countries, and their relationship to the international communications system.

**420-2 to 4 High School Journalism Clinic.** For public school teachers.

**421-4 School Publications.** Designed for the prospective journalism teacher or high school publication director. Deals with practical production problems of newspapers and yearbooks.

**422-3 Teaching High School Journalism.** Teaching methods of journalism in secondary schools, organization and course of study, bibliography, use of journalism courses for school publications production.

**431-3 Public Relations.** Study of current methods of planning and executing public relations policies; evaluation of media; preparation of campaigns.

**432-3 Communication Agencies and Public Opinion.** Press, radio, television, and motion pictures and their role in the opinion process.

**433-3 Measurement of Public Opinion.** The sampling survey as a research tool; survey methodologies.

**440-3 Content Analysis.** Theory and practice of various systems designed to reveal the orientation of editorial material in the mass media.

**442-3 The Law of Journalism.** Legal limitations and privileges affecting publishing, fair comment, criticism, contempt of court, right of privacy, copyright, and legal provisions affecting advertising.

**449-2 to 8 Practicum.** Study, observation, and participation in publication supervision. Work required on *The Egyptian* newspaper.

**479-3 Role of Advertising in our Society.** An exhaustive analysis of the literature covering such topics as: definitions and scope of advertising; advertising and the press; advertising as a social and economic force; evaluation of advertising, policies as related to the practices of specific business firms.

**495-3 Book Reviewing.** Theory and practice in reviewing modern books; study of newspapers and magazines devoted entirely or in part to this type of journalism.

**499-3 Summer Workshop in News Analysis in the Classroom.** A study of the relationship of the newspaper to other high school coursework. Time spent in developing ways of integrating the newspaper in the classroom.



- 501-3 Literature of Journalism.
- 530-2 Seminar in Press Freedom.
- 532-4 Seminar in Public Opinion and Propaganda.
- 533-1 to 4 Research Problems in Journalism.
- 540-3 Philosophy of Journalism.
- 545-3 Studies in Journalism History.
- 590-3 Seminar in Journalism History.
- 595-0 Graduate Seminar.
- 599-1 to 8 Thesis.
- 600-1 to 48 Dissertation.

### Management

- 170-4 Introduction to Business Administration. A survey of business, intended to give to the student a general knowledge of the modern business world, a better basis for choosing his specialty, and certain information not covered in the various specialized courses offered.
- 271-4 Business Writing. Principles and practice in writing typical kinds of business correspondence and reports. Prerequisite: GSD 101.
- 340-4 Business Organization and Management. Business organization, management theory, and practice. Prerequisite: junior standing or consent of instructor.
- 350-4 Management Control Systems. Systems theory and applications. Methods of establishing, analyzing, standardizing and controlling administrative systems. Work simplification, work-flow charting and systems control applications to organizational units. Prerequisite: 340 or consent of instructor.
- 361-4 Business Report Writing. Discussion, illustration, and practical application of report-writing techniques, including study of uses, forms, and structures of different types of reports. Prerequisite: GSD 101.
- 380-4 Production Management. Plant location, design, and construction; internal organization for operations, production control, stores control, routing of materials, job analysis, and time study; wage systems, subdivision of executive responsibilities and duties; methods of coordination and planning. Prerequisite: 340 or consent of instructor.
- 382-4 Time and Motion Study. Principles and methods for simplifying work and establishing sound time-standards for performance.
- 385-4 Personnel Management. Relations of the human element to production; the art of securing understanding and cooperation; employee organizations and outside activities; work of the personnel department; wage standards and working conditions. Prerequisite: 340 or consent of instructor.
- 430-4 Human Relations and Organizational Behavior. The study of human problems in administration; individual, group, intergroup and organizational behavior under dynamic environment conditions. Theory and case analyses. Prerequisite: 340 or consent of instructor.
- 431-4 Organization Theory and Practice. A study of classical and modern theories concerning complex organizations. Particular emphasis on processes and issues of dividing work, achieving coordination, and organizational change and adaptation. Prerequisite: 340 or consent of instructor.
- 440-4 The Management Process. Analysis of management theories and the administrative process. Specific managerial activities are analyzed and discussed. Functional relationships in administered organizations are explored. Restricted to MBA students.
- 451-4 Methods of Quantitative Analysis. Introduction to modern mathematical technologies applicable to solving business problems. Methods reviewed include symbolic logic, linear algebra and finite mathematics. Restricted to MBA students or consent of instructor.
- 452-4 Business Operations Analysis. Analysis of business operations and management problems emphasizing problem formulation, performance measures, decision criteria and various mathematical models and their application; linear programming, game theory, etc. Prerequisites: 340, 451 or consent of instructor.
- 455-4 Programming for Digital Computers. Computer organization and characteristics, machine language-coding, flow charts, sub-routines, optimum and symbolic coding, compilers and interpretative systems. Laboratory uses Computing Center equipment. Prerequisite: consent of instructor.



**460—4 Work Measurement for Wage and Salary Control.** Research design and methodology for wage and salary administration in an organization; fundamental considerations in evaluating jobs and positions; compensation methods and wage incentive systems. Prerequisite: 385.

**461—4 Management Decision Making.** Survey of problem solving theories and methods; decision information and systems models and applications. Analysis of administrative behavior in the decision process within formal organizations; socio-economic constraints and their interaction. Prerequisite: senior standing or consent of instructor.

**472—4 Small Business.** Small business analysis, primarily through case studies of business financing, location, organization, merchandising practices, records, government regulation, and taxes. Open only to students with concentration in business.

**474—4 Management Responsibility in Society.** Relationship of profit and service objectives of management and their limitations on management authority. Resolution of business-society conflicts with external environmental groups through socially responsible management. Prerequisite: 340.

**479—4 Problems in Business and Economics.** Applications of economic theory and tools of analysis to practical business problems. Cost and demand functions are analyzed from a policy standpoint. Prerequisite: senior standing.

**480—4 Recent Problems in Labor Law.** Social, economic, and legal evaluations of recent labor problems, court decisions, and legislation. Concern is on long-run legislative impact on manpower planning, dispute settlement, and utilization of employment resources. Prerequisite: Finance 371 or Economics 310 or Government 395.

**481—4 Administrative Management.** Integration and analytical application of business core courses to comprehensive business cases. Emphasis on policy issues in the identification and resolution of business problems. Prerequisite: 340, Finance 320, and Marketing 325.

**483—4 Advanced Production Management.** Internal problems of managerial control of production including recent developments in theory and techniques: case material will be utilized for the development of analytical ability. Prerequisite: 380.

**485—4 Problems in Personnel Management.** Analysis of problems in personnel administration arising from current developments in organization; case problems and special reports; and personnel practices. Prerequisite: 385.

## Marketing

**225—3 Marketing and the Economy.** A micro approach to the subject. Attention is given to the structural organization of marketing institutions and to factors influencing the marketing environment. Consumption costs, efficiency, and social productivity are also covered. Prerequisite: GSB 201b or 211a or equivalent.

**325—4 Marketing and the Firm.** A micro approach to the subject. Attention is given to the management of the marketing efforts of the individual firm. Emphasis is given to the application of basic management concepts within research, product planning, sales, advertising, traffic and inventory management, and distribution. Prerequisite: 225 and Accounting 251a or equivalent.

**326—4 Quantitative Techniques in Marketing.** An introduction to and survey of, mathematical tools of decision making in marketing situations. Application of these techniques to the analyses of marketing problems is emphasized. Prerequisite: 325, GSD 108b (or 114b).

**329—4 Retail Management.** This is a course designed to present the basic principles and decision areas such as location, layout, organization, personnel, merchandise control, sales promotion, advertising, etc., of retail and wholesale merchandising through an inter-related and managerial perspective. Prerequisite: 325.

**333—4 Principles of Advertising.** Advertising fundamentals in relation to modern business activities; fields of advertising; advertising media, campaigns, and systems. Prerequisite: 325.

**335—4 International Marketing.** Factors affecting export and import marketing. Emphasis on international and governmental roles. Prerequisite: 325.

**336—4 Purchasing.** Dealer-supplier relationship, in manufacturing, wholesaling, retailing. Purchasing for resale and for consumption. Influence in sales



promotion materials. Buying from single and multiple suppliers. Prerequisite: 325.

**337—4 Principles of Salesmanship.** History, scope, and importance of selling in modern business; the sales department; the salesman's part in the selling process. Prerequisite: 325.

**341—4 Transportation.** Evolution of American Transportation systems, and of the current problems of transportation facilities in connection with governmental control and regulation. Prerequisite: 325.

**401—4 Problems of Retailing.** This course is an analysis of current problems and trends in distribution systems and in the marketing of consumer goods. Emphasis is placed upon economic and legal aspects of the retail competitive environment, channels of distribution, retail store operation, and nonstore retailing. Prerequisites: 325 and 329.

**438—4 Sales Management.** Developing and training a sales force. The different types of sales forces. Managing sales functions; determining salesmen's territories, quotas, compensation. Budget preparation. Developing and implementing the merchandise plan. Prerequisites: 325 and 337.

**439—4 Industrial Marketing Management.** Designed to give an over-all view of the field of industrial marketing. Additional emphasis is to be placed on decision criteria. Prerequisites: 325 and 336.

**450—4 Introduction to Managerial Marketing.** Designed to give an over-all view of the field of marketing and the field of marketing policy decisions. Cases are used to illustrate theory covered. Prerequisite: Restricted to MBA students.

**452—4 Physical Distribution Management.** This course is designed to present a systematic, integrated treatment of problems of managing goods from their sources to the ultimate consumer. Attention will focus on spatial relationships of plant capacity and storage facilities and their connecting link, transportation. Prerequisites: 325 and 341.

**463—4 Advertising Management.** The effective use of advertising by business management. An understanding of what advertising can be expected to accomplish under different sets of marketing factors and products. The selection of advantageous advertising programs under different marketing mixes. Prerequisites: 325 and 333.

**490—4 Marketing Research and Analysis.** A nonmathematical development of the basic procedures, methods, and theory underlying analysis of primary and secondary market data. Prerequisites: 325 and one quarter of basic statistic or its equivalent.

## Mathematics

**111—10 (5,5) College Algebra and Trigonometry.** For students who have had intermediate algebra and plane geometry in high school. Must be taken in a,b sequence.

**150—10 (5,5) Elementary Calculus and Analytic Geometry.** Elementary differential and integral calculus with analytic geometry and applications. Includes the definite integral and differentiation of transcendental functions. Must be taken in a,b sequence. Prerequisite: 111b.

**220—4 Elementary Statistics.**

**225—4 Programming for Digital Computers.** An intensive course. Topics include computer organization and characteristics, machine language coding, flow charts, subroutines, symbolic coding, and compiler systems. Equipment of the University's Data Processing and Computing Center is used for applications. Prerequisite: GSD 108c, or 111b, or consent of instructor.

**252—9 (5,4) Intermediate Calculus and Analytic Geometry.** Continuation of 150. Includes differential and integrated calculus, applications, introduction to solid analytic geometry, infinite series. Must be taken in a,b sequence. Prerequisite: 150b.

**305—6 (3,3) Applied Mathematics for the Physical Sciences.** (a) Ordinary differential equations, linear algebra, and applications; (b) Additional topics in applied mathematics such as finite difference methods, Laplace transforms, and Fourier series. Must be taken in a,b sequence. Prerequisite: 252b.

**310—4 The Teaching of Elementary Mathematics.** A professional treatment of the subject matter of arithmetic methods and a study of trends and current literature on the teaching of arithmetic. For elementary education concentra-



tion only. Prerequisite: GSD 108b.

**311-3 The Teaching of Secondary Mathematics.** A study of the nature and objectives of the secondary mathematics curriculum. Particular attention is given to the means of introducing new ideas into the high school program. For students preparing to be certified teachers of secondary mathematics. Does not count toward a mathematics concentration for Bachelor of Arts degree students. Prerequisite: 320a.

**320-6 (3,3) Fundamental Concepts of Algebra.** Introduces abstract algebraic structures, including groups, rings, and fields. Attention is given to classical theory of numbers and polynomials. Must be taken in a,b sequence. Prerequisite: 150b.

**335-6 (3,3) Concepts of Geometry.** An elementary introduction to various geometric systems to acquaint the student with the interrelationship between geometries of current interest. Topics include axiom systems, absolute plane geometry, Euclidean geometry, and non-Euclidean geometry. Must be taken in a,b sequence. Prerequisite 252a or consent of instructor.

**395-2 to 12 Readings in Mathematics.** Supervised reading in selected subjects. Prerequisite: 12 hours of 300- or 400-level mathematics, 4.00 grade point average in mathematics, and consent of chairman of department.

**400-3 History of Mathematics.** An introduction to the development of major mathematical concepts. Particular attention given to the evolution of the abstract concept of space, to the evolution of abstract algebra, to the evolution of the function concept, and to the changes in the concept of rigor in the development of mathematics from 600 B.C. to the present time. Prerequisite: 320a or consent of instructor.

**407-3 Introduction to Partial Differential Equations.** A continuation of 305. Topics in applied mathematics including linear partial differential equations, Bessel functions, and vector analysis. Prerequisite: 305b.

**410-16 (4,4,4,4) Statistical Analysis.** For students in fields using statistical methods but who are not required to take calculus. Includes (a) elements of probability, estimation, and testing hypotheses; (b) the general linear model (multiple linear regression, analysis of variance, analysis of covariance) and nonparametric statistics; (c) design of experiments; (d) sample survey techniques. May not be used to satisfy requirements for a mathematics concentration. Three lectures and two laboratory hours per week. Must be taken in either a,b,c,d or a,b,d,c sequence. Prerequisites: GSD 108c.

**413-4 Solid Analytic Geometry.** An algebraic study of equations of the first and second degree in three variables, with applications to geometry. Systems of planes; equations of lines in symmetric and parametric form. Spheres, cylinders, surfaces of revolution. Matrix algebra; real orthogonal and symmetric matrices. Coordinate transformations; orthogonal similarity. Quadratic forms and quadric surfaces; invariants; principal axes and planes. Prerequisite: 252b or consent of chairman.

**421-6 (3,3) Linear Algebra.** The theory of determinants and systems of linear equations; vector spaces, linear independence, bases, dimension; linear transformations, change of base, similarity; quadratic and Hermitian forms, orthogonal and unitary transformations; triangular and diagonal form; eigenvalues and eigenvectors; normal matrices; nilpotent and idempotent matrices, the spectral theorem. Must be taken in a,b sequence. Prerequisite: 252b.

**425-3 Theory of Numbers.** Topics in elementary number theory, including properties of integers and prime numbers, divisibility. Diophantine equations, and congruence of numbers. Prerequisite: 320a.

**426-6 (3,3) Mathematical Logic.** (Same as Philosophy 426.) (a) Matrix and set theoretic development of the propositional calculus, many-valued logics, modal logics. Completion and consistency proofs for the propositional calculus; (b) A formal development of the predicate calculus and related problems. Must be taken in a,b sequence. Prerequisite: 320a or consent of instructor.

**428-6 (3,3) Boolean Algebra and Switching Theory.** An introduction to Boolean algebra with applications to switching circuits, set theory, and logic; Boolean functions and canonical forms; Boolean rings and algebras; linear graphs; partially ordered sets and lattices; theory of simplification and design of combinational and sequential circuits. Must be taken in a,b sequence. Prerequisite: 320a or consent of instructor.

**430-4 Projective Geometry.** Introduction to the fundamental concepts of projective geometry. Topics usually include the study of conics, polar systems of conics, homogeneous coordinates, cross-ratio, harmonic sets, duality, projec-



tivities, and involutions. Prerequisite: 252a or consent of instructor.

**433-3 Theory of Point Sets.** General properties of sets; topology of plane sets; closed sets and open sets in metric spaces, homeomorphisms and continuous mappings, connectedness. Prerequisite: 252b and 6 hours in courses numbered 300 or higher, or consent of instructor.

**440-2 to 4<sup>1</sup> Modern Algebra for Teachers.** An introduction to algebra as a logical system, including groups, rings, and fields. Prerequisite: consent of instructor.

**442-2 to 4<sup>1</sup> Survey of Geometry.** A survey of geometry, including projective geometry, topology, etc. Prerequisite: consent of instructor.

**444-2 to 4<sup>1</sup> Sets, Functions, and Relations.** Basic ideas of sets, set algebra, elementary logic, relations and functions, graphing. Prerequisite: consent of instructor.

**445-2 to 4 Fundamental Concepts of Calculus.** A careful study of the basic concepts of calculus. Prerequisite: consent of instructor.

**452-9 (3,3,3) Advanced Calculus.** Fundamental concepts of analysis: limits, continuity, differentiation, and integration. Major topics include partial differentiation, vector analysis, Riemann-Stieltjes integrals, multiple integrals, infinite series, improper integrals, uniform convergence, Fourier series, and line and surface integrals. Must be taken in a,b,c sequence. Prerequisite: 252b.

**455-3 Analytic Functions with Applications.** A course in the elements of the theory of functions of a complex variable with stress on techniques and applications. Topics include a discussion of analytic functions, contour integration, and conformal mapping. Prerequisite: 252b.

**458-6 (3,3) Finite Mathematics.** An introduction to topics in finite mathematics such as logic, sets, probability, linear algebra, and Markov chains. This course is designed for students preparing for high school teaching and for advanced students in the behavioral sciences. Prerequisite: 252a or consent of instructor.

**460-4 Modern Geometry.** Advanced topics in Euclidean geometry by the synthetic method. Topics include the nine-point circle, Simson line, theorems of Ceva and Menelaus, coaxal circles, harmonic section, poles and polars, similitude, and inversion. Prerequisite: 20 hours of college mathematics.

**475-9 (3,3,3) Numerical Analysis.** Introduction to approximation methods including finite differences and interpolation; numerical differentiation and quadrature; least squares approximation; numerical solution of linear and non-linear systems; numerical integration of systems of ordinary and partial differential equations. Emphasis upon error analysis throughout. Must be taken in a,b,c sequence. Prerequisite: 305a or 252b and consent of instructor.

**480-10 (4,3,3) Probability.** Introduction to probability theory. Includes the algebra of possibilities; discrete and continuous distributions, limit theorems, generating functions, and some elements of stochastic processes. Must be taken in a,b,c sequence. Prerequisite: 252b.

**483-12 (4,4,4) Introduction to Mathematical Statistics.** A mathematical development of the elements of statistical theory. (a) Probability distributions, generating functions, and limit theorems; (b) Statistical inference: estimation, tests of hypotheses, general linear hypothesis; (c) Design of experiments—a mathematical model approach. Must be taken in a,b,c sequence with the exception that 480a, 421a, and consent of instructor may replace 483a. A student will not be allowed university credit for both 480a and 483a. Prerequisite: 252b.

**501-9 (3,3,3) Real Variables.**

**505-9 (3,3,3) Theory of Ordinary Differential Equations.**

**507-9 (3,3,3) Partial Differential Equations.**

**510-4 Foundations of Mathematics.**

**520-9 (3,3,3) Modern Algebra.**

**522-3 to 18 Advanced Topics in Algebra.**

**528-9 (3,3,3) Theory of Automata.**

**530-6 (3,3) Point Set Topology.**

**531-6 (3,3) Algebraic Topology.**

**532-3 to 18 Advanced Topics in Topology.**

**536-3 Differential Geometry.**

**540-4<sup>1</sup> Groups and Linear Transformations.**

**543-4 Probability for Teachers.**

**545-4<sup>1</sup> Intermediate Analysis for High School Teachers.**

**546-4<sup>1</sup> Convex Figures.**

- 547-2 to 4<sup>1</sup> The Secondary School Mathematics Program.  
550-1 to 10 Seminar.  
551-9 (3,3,3) Functional Analysis.  
552-3 to 18 Advanced Topics in Analysis.  
555-9 (3,3,3) Complex Variables.  
560-6 (3,3) Calculus of Variations.  
580-9 (3,3,3) Mathematical Methods of Statistics.  
592-3<sup>1</sup> Research in Mathematics Education.  
595-1 to 10 Special Project.  
599-1 to 9 Thesis.  
600-1 to 48 Dissertation.

<sup>1</sup>These courses are open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of mathematics or the director of the institute.

## Microbiology

- 301-5 Principles of Microbiology. A survey of morphology, structure, metabolism, population dynamics, and heredity of the microbial agents, with particular emphasis on pure culture methods of study of the bacteria, viruses, and related organisms. Four hours lecture, 5 hours laboratory. Prerequisite: one year of college chemistry and GSA 210a or equivalent.
- 302-5 General Microbiology. Interrelationships of microorganisms and their positions and influence in the biological world; relationships to soil fertility, host-parasite relationships, mechanisms of infection and resistance, principles of chemotherapy, and their exploitation by man in medicine and industry. Three hours lecture and 5 hours laboratory. Prerequisite: 301.
- 350-1 to 3 Readings in Microbiology.
- 390-2 to 5 Undergraduate Research Participation. Investigation of a problem either individually or as a part of a research group under direction of a member of the Faculty. Prerequisites: 4.00 grade point average in microbiology and/or consent of the department.
- 401-1 Seminar. (For undergraduates only.) Prerequisite: senior standing and consent of instructor. This course may be taken for credit once only.
- 403-5 Medical Bacteriology. A general survey of the mechanisms of infection, epidemiology, and immunity and the specific application of these principles to the symptomatology, diagnosis, treatment, and control of the more common bacterial infections of man. Three hours lecture and 4 hours laboratory. Prerequisite: 301 and 302.
- 422-5 Microbiology of Foods. The relationships of microorganisms to the preparation and preservation of foods with consideration of the laws governing sanitation, chemical preservatives, and fair dealing of the food producer. Three hours lecture, 4 hours laboratory. Prerequisite: 301.
- 423-5 Industrial Fermentation. The application of the chemical activities of microorganisms to the industrial production of beverages, foods, antibiotics, and various commercial chemicals. Three hours lecture, 4 hours laboratory. Prerequisites: 301 and organic chemistry.
- 424-5 (3,2) Soil Microbiology.
- 425-3 Biochemistry and Physiology of Microorganisms. The chemical basis of physiological functions in microbial cells with emphasis on the pathways of metabolism common to all living things. Three hours lecture. Prerequisites: 301 and organic chemistry.
- 426-2 Biochemistry and Physiology of Microorganisms. Four hours laboratory. Prerequisite: 425.
- 441-6 Virology. Properties, cultivation and titration of viruses and rickettsiae; cellular infection, multiplication and liberation of virus; immunological reactions and serological identification; hemagglutination and interference phenomena. Consideration of selected viral and rickettsiae diseases of animals. Three hours lecture, 6 hours laboratory. Prerequisite: 451 and consent of instructor.
- 451-6 Immunology. Natural and acquired immunity; antigens, antibodies and antigen-antibody reactions; hypersensitivity; practical use of immunity and hypersensitivity. Three hours lecture, 6 hours laboratory. Prerequisite: 403 and consent of instructor.
- 500-1 Seminar.



- 501-2 Genetics of Microorganisms.  
 503-2 Cytology of Microorganisms.  
 504-5 Methods of Microbiological Research.  
 506-2 Bibliographical Methods in Microbiology.  
 511-1 to 15 Research.  
 525-3 Biochemistry and Physiology of Microorganisms.  
 526-2 Biochemistry and Physiology of Microorganisms.  
 528-1 to 10 Readings in Microbiology.  
 599-3 to 9 Thesis.  
 600-3 to 48 Dissertation.

### Music

001-5 (1,1,1,1,1) **Band.** (a) Saluki Marching Band, (b) Symphonic Band, (c) Stage Band, (d) Laboratory Band, and (e) Wind Ensemble. Prerequisite: c,e by audition; a,b,d by consent of instructor.

001f-1 **Piano Accompaniment Lab.** A performance lab for students whose principal instrument is piano and who have attained sufficient skill to accompany the music soloist or performing group.

002-4 (1,1,1,1) (a) University Choir, (b) Chorus Oratorio, (c) Male Glee Club, and (d) Women's Choral Ensemble. May be taken in any sequence. Any part may be repeated for 12 quarters. Prerequisites: Auditions required for a,c,d.

010-6 (1,1,1,1,1,1) **Class Applied Music.** Offered in all areas of applied music except organ. These courses include the minimum instruction required for passing the proficiency examinations in piano and voice and they offer practical training in the basic principles of playing the instruments of the orchestra and band. They also include introductory techniques and methods for teaching instrumental and choral groups in the elementary and secondary schools.

- |              |               |
|--------------|---------------|
| a. Strings   | d. Percussion |
| b. Woodwinds | e. Piano      |
| c. Brass     | f. Voice      |

May be taken in any sequence.

105-12 (4,4,4) **Theory of Music.** Fundamentals of music in sight singing, ear training, harmony, and keyboard harmony.

140, 240, 340, 440, 540-1 to 4 **Private Applied Music.** Offered at five levels in the areas listed below. Credit is given at 1, 2, or 4 hours on each level. Consult with adviser for details of credit and requirements. May be repeated for three quarters at each level. Students with a concentration in Performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. Prerequisite for 140; music concentration or secondary concentration or consent of music faculty. Prerequisite for higher levels: three quarters at the previous level on the same instrument or consent of instructor.

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|----------------|----------------|
| a. Violin      | j. Percussion  |
| b. Viola       | k. Piano       |
| c. Cello       | l. French Horn |
| d. String Bass | m. Trumpet     |
| e. Flute       | n. Trombone    |
| f. Oboe        | o. Tuba        |
| g. Clarinet    | p. Baritone    |
| h. Bassoon     | q. Voice       |
| i. Saxophone   | r. Organ       |

200-3 **Fundamentals of Music.** Rudiments of music for those with little or no musical background. Recommended as a course preliminary to 300 (not for music concentrations). May be taken concurrently with 010e.

205-9 (3,3,3) **Theory of Music.** Advanced harmonic techniques, modulation, altered chords, chromatic harmony, counterpoint, and introduction to contemporary harmonic principles. Must be taken in a,b,c sequence. Prerequisite: 105c.

240-1 to 4 **Private Applied Music.** (See Music 140).

300-6 (3,3) **Music Education-Elementary.** Teaching music in the elementary grades. (a) For music concentrations only; (b) For nonmusic concentrations only. Prerequisite: 200 or equivalent.

303-3 **Music Education-Secondary.** Teaching music in the high school.



**305I-3 Instrumental Problems and Materials.** Administration of the school instrumental music program. Emphasis on library, physical facilities, organization of the marching band, arranging music for out-of-door performances.

**305V-3 Vocal Problems, Materials, and Conducting.** Vocal and psychological problems in handling choral groups, reading and acquaintance with a variety of choral materials at the high school level, and interpretation through conducting techniques.

**306-3 Music for Primary Children.** Music activities, materials and methods appropriate for children in the primary grades. This course is offered especially for students with concentrations in Kindergarten-Primary and Elementary Education.

**307-4 Recreational Music.** For those interested in the less formal approach to music and for prospective leaders of recreational activities.

**309-6 (2,2,2) Arranging.** (a) Rudiments of arranging, choral and instrumental; (b) Techniques of arranging for the small ensemble; (c) Techniques of arranging for the large ensemble. Must be taken in a,b,c sequence. Prerequisite: 105c.

**312-6 (2,2,2) Composition (a,b,c).** Original composition in the smaller forms for piano, voice, string quartet, and other small combinations. Prerequisite: 205c.

**315-2 Opera Repertory.**

**318-6 (2,2,2) Conducting.** (a) Basic conducting techniques; (b) Choral or instrumental conducting techniques. Prerequisite: 318a.

**326-6 (2,2,2) Analysis.** The element of structure, form, and design in musical composition. Prerequisite: 205c.

**340-1 to 4 Private Applied Music.** (See Music 140.)

**342-6 (2,2,2) Advanced Composition.** Required of undergraduates with concentration in theory-composition, culminating with original works in contemporary idioms. Taught by individual instruction. Prerequisite: 312c and consent of department.

**345-1 Chamber Choir.**

**346-2 to 12 Opera Workshop.**

**355-1 Chamber Music.** String ensemble. May be repeated for credit.

**GSC 357-9 (3,3,3) Music History and Literature.**

**365-1 Chamber Music.** Woodwind, brass and percussion ensemble.

**411-9 (3,3,3) (a) Symphonic Literature.** Development of the symphony and the symphonic poem to 1900; (b) **Choral Literature.** The literature of the larger vocal forms such as the cantata and oratorio to 1900; (c) **Chamber Music Literature.** Chamber music literature from the Renaissance to the present.

**414-2 to 6 Collegium Musicum.** Practicum in the preparation and performance of music from early times to the classical period. Prerequisite: Music Concentration and/or consent of the department.

**420-1 Music Education Practicum.** A shop-laboratory course dealing with the selection, adjustments, maintenance and repair of musical instruments.

**441-6 (2,2,2) Counterpoint.** (a) 16th Century Counterpoint. Special counterpoint and creative writing in the style of Palestrina and his contemporaries. Prerequisite: 105c; (b) 18th Century Counterpoint. Analysis and creative writing in the contrapuntal-harmonic technique of Bach and his contemporaries. Prerequisite: 105c; (c) Canon and Fugue. Analysis and creative writing of the larger imitative forms. Prerequisite: 441b.

**451-2 to 3 Teaching General Classroom Music.**

**455-2 to 6 Elementary Music Education Workshop.**

**461-2 Teaching Techniques and Materials for the Beginning and Intermediate Levels.** Designed to meet the needs of applied students in the Bachelor of Music or Master of Music degree programs in which the problems of private studio teaching and college-level teaching are discussed.

**462-2 Teaching Techniques and Materials for the Advanced Student.** Prerequisite: 461.

**465-9 (3,3,3) Development and Teaching of Strings.** Place and function of string education in the elementary and secondary schools. Techniques of heterogeneous and homogeneous string teaching. Developing and sustaining interest in the string program. Resource aids. May be repeated for a total of 9 hours credit. Prerequisite: senior standing.

**481-2 to 6 Readings in Music Theory.**

**482-2 to 6 Readings in Music History and Literature.**

- 483-2 to 6 Readings in Music Education.
- 501-3 Introduction to Graduate Study in Music.
- 502-6 (2,2,2) Analytic Techniques.
- 503-3 to 4 Objective Research Techniques in Music Education.
- 504-3 Music of the Middle Ages and Renaissance.
- 505-3 Music of the Baroque Period.
- 506-3 Music of the Classical Period.
- 507-3 Music of the Romantic and Impressionistic Periods.
- 508-3 Music of the Twentieth Century.
- 509-3 The History and Philosophy of Music Education.
- 512-3 History of Opera.
- 515-3 20th Century Literature.
- 522-3 Seminar: Music History and Literature.
- 531-3 to 9 Advanced Composition.
- 535-3 Contemporary Idioms.
- 540-1 to 4 Private Applied Music. (See Music 140.)
- 545-3 to 9 Philosophy of Music Theory.
- 550-2 to 4 Administration and Supervision of Music (Elementary).
- 551-2 to 4 Organization and Administration of Music-Secondary.
- 553-3 Seminar in Choral Materials and Techniques.
- 554-3 Seminar in Instrumental Materials and Techniques.
- 556-2 to 6 Advanced Conducting.
- 560-2 to 3 Seminar in Music Education.
- 566-1 to 4 Instrumental Ensemble.
- 567-1 to 4 Vocal Ensemble.
- 568-2 to 12 Opera Workshop.
- 599-3 to 9 Thesis.

### Philosophy

- 200-4 Types of Philosophy: An Introduction. Survey of the traditional branches and problems of philosophy, such as religion, metaphysics, epistemology, ethics, political theory, aesthetics, and history.
- 300-4 Elementary Metaphysics. Presentation of answers to the most general problems of existence. An attempt to unify all scientific approaches to reality through the laying down of common principles.
- 301-4 Philosophy of Religion. An analysis of problems in the psychology, metaphysics, and social effects of religion. Among topics discussed are the nature of mystical experience, the existence of God, and problems of suffering, prayer, and immortality.
- GSC 310-3 Religious Foundations of Western Civilization.
- GSC 311-3 Philosophies and Religions of India.
- GSC 312-3 Philosophies and Religions of the Far East.
- 320-4 General Logic. Terms, propositions, and reasoning. Logic as an instrument for the solution of problems in natural and social sciences.
- 340-4 Elementary Ethics and Politics. Problems of right and wrong for the individual and society.
- 355-4 Philosophy of Education. Survey of theories of education and their relationships to educational policies and practices, as elucidated by the great teachers. Satisfies the education requirement, Educational Administration 355.
- 360-4 Philosophy of Art. The significance of art as a human activity, its nature and standards as seen in the problems of criticism, and the relation of art to other forms of knowledge.
- GSC or GSA 363-6 (3,3) Philosophy of Science.
- GSC 381-3 Greek Philosophy.
- GSC 382-3 Graeco-Roman and Medieval Philosophies.
- GSC 383-3 Early Modern Philosophy.
- GSC 386-3 Early American Philosophy.
- GSC 387-3 Recent American Philosophy.
- 406-4 Philosophy of Biology. Leading concepts of biological sciences: species, evolution, life, organism and part, etc. Abstract ideas of biology are related, wherever possible, to specific experiments recorded in scientific literature. Prerequisites: 300 or 320, and three laboratory or field courses in the biological sciences or consent of instructor.
- 415-3 Logic of the Social Sciences. Logical and epistemological examination



of the social studies as types of knowledge. Basic problems in philosophy of science with major emphasis upon social science: relationship of theory to fact, nature of induction, nature of causal law, testability, influence of value judgments, etc. Intended for students with considerable maturity in a social science or in philosophy.

**420-4 Advanced Logic.** A careful study of symbolic and discursive systems of logic: Aristotle, Spinoza, Boole, Whitehead, and Johnson. Prerequisites: 320 and consent of instructor.

**426-6 (3,3) Mathematical Logic.** (See Mathematics 426.)

**428-3 Logic of the Exact Sciences.** Critical study of the technical and philosophical problems associated with formal logic and its uses as a tool for model construction, for formalizations, reconstructions, and as an image of rational thought. Prerequisites: 426-6 or consent of instructor.

**441-4 Philosophy of Politics.** (Same as Government 441.) Some of the central problems of modern political life, such as sovereignty, world government, authority and consent, the relations of economics and social studies to political theory. Prerequisite: GSC 102 or 340 or consent of instructor.

**443-4 Philosophy of History.** Classical and contemporary reflections on the nature of history and historical knowledge as the basis for dealing with the humanities. Prerequisite: consent of instructor.

**460-4 Advanced Philosophy of Art.** The definition of art, its relations to science, culture, and morals; the various types of art defined. Familiarity with at least one of the fine arts is assumed. Prerequisites: GSC 207 or 360, and six courses in music, painting, sculpture, literature, or drama.

**477-4 Latin American Philosophy.** A survey of philosophic thought in Latin America from colonial times through nineteenth century positivism and the reactions against it, up to recent trends. Reading of original texts in English translations. Discussions and reports.

**478-4 Seminar in Latin American Thought.** (See Spanish 478.)

**481-6 (3,3) 19th Century European Philosophy.** (a) Kant, Schopenhauer, and Hegel; (b) Nietzsche, Bergson, the Utilitarians, and latter day idealists. May be taken singly and in any sequence.

**482-3 Recent European Philosophy.** Phenomenology, Positivism, Linguistic Analysis, and Existentialism.

**490-2 to 12 Special Problems.** Hours and credits to be arranged. Courses for qualified seniors and graduates who need to pursue certain topics further than regularly titled courses permit. Special topics announced from time to time. Students are invited to suggest topics for individual study and papers or for group study. Consent of instructor in all cases required.

**500-2 to 4 Seminar in Metaphysics.**

**501-2 to 4 Seminar in the Philosophy of Religion.**

**515-3 Theory of Nature.**

**530-2 to 4 Seminar in Theory of Knowledge.**

**540-3 Philosophy of Journalism.**

**570-3 Seminar in American Idealism.**

**581-2 to 4 Seminar in Plato.**

**582-2 to 4 Seminar in Aristotle.**

**585-3 Seminar in British Empiricism.**

**586-2 to 4 Seminar in Spinoza.**

**587-3 Seminar in Hegel.**

**588-2 to 4 Seminar in Kant.**

**589-2 to 12, 590-2 to 12 General Graduate Seminar.**

**591-1 to 5 Readings in Philosophy.**

**599-2 to 9 Thesis.**

**600-3 to 48 Dissertation.**

### Physical Education—Men

**100a-1 Methods of Teaching Swimming.** Stresses techniques and methods of teaching applied to individual and group instruction. Basic strokes, underwater swimming, elementary diving, body and breath control, self support, and watermanship. Prerequisite for nonswimmers: audit beginner's swimming course.

**100b-1 Methods of Teaching Golf.** To prepare the student to teach the fundamental aspects of golf, with emphasis on adaptation to varied approaches in teaching.



**100c-1 Methods of Teaching Tennis.** Enables the student to acquire, through practice, the knowledge and skills necessary to teach this activity; includes consideration of desirable teaching materials to enhance instruction.

**100d-1 Methods of Teaching Individual and Team Activities.**

**100e-1 Methods of Teaching Basic Rhythms.**

**100f-1 Methods of Teaching Exercise.**

**100g-2 Methods of Teaching Football.** Individual instruction and practice in all the fundamentals of the game such as passing, kicking, blocking, tackling, running. Emphasis on effective methods of teaching and coaching.

**100h-2 Methods of Teaching Basketball.** Deals with individual and team fundamentals with special emphasis on passing, pivoting, shooting, dribbling, and variety of play patterns concerned with offense and defense. Basic methods of teaching and coaching.

**100i-2 Methods of Teaching Baseball.** Development of the practical skills and ability to teach and coach the techniques of batting, fielding, and playing the various positions in the game.

**100j-2 Methods of Teaching Track and Field.** Students gain practical experience as a foundation for learning the techniques of teaching the running and field events. Emphasis on individual analysis of movement for effective teaching.

**100k-2 Methods of Teaching Gymnastics.** To develop individual techniques in stunts and tumbling, calisthenics, parallel bars, side horses, trampoline, and high bar; fundamental skills, individual and group methods of instruction.

**100m-2 Methods of Teaching Wrestling.** Enables the student to master the fundamental skills of wrestling as well as to teach the individual and group methods of wrestling instruction.

**101-2 Orientation Practicum in Physical Education.** To introduce the student to his professional field, to enable him to secure a concept of the role of physical education in total education, and to crystallize his thinking in relation to vocational objectives. The significant historical aspects of physical education and its role in the broad cultural heritage in order to provide an interpretation and perspective to contemporary issues and developments. Freshman year.

**170-2 Varsity Football.**

**171-2 Varsity Basketball.**

**172-2 Varsity Track.**

**173-2 Varsity Tennis.**

**174-2 Varsity Gymnastics.**

**175-2 Varsity Baseball.**

**176-2 Varsity Golf.**

**177-2 Varsity Swimming.**

**178-2 Varsity Cross Country.**

**179-2 Varsity Wrestling.**

**220-1 Recreational Activities and Games (Outdoor).**

**221-1 Recreational Activities and Games (Indoor).**

**303-5 Kinesiology.** Study of joint and muscle action as a basis for the mechanical analysis of human physical movement executed in daily life and in physical education activities and sports. Prerequisites: Physiology 300. GSA 301.

**305-2 Physical Education for the Atypical Student.** Deals with the recognition of physical deviations from the normal student and with the provisions of special or modified physical education or recreational activities for such students. Prerequisites: Physiology 300 and GSA 301.

**306-1 Advanced Stunts and Tumbling.**

**307-1 Advanced Apparatus.**

**317-1 Life Saving and Water Safety.**

**330a-2 Theory of Basketball Coaching.** Different types of offense and defense studied; special emphasis given to early season conditioning and practice, offensive and defensive drills, team strategy, rules of the game. Prerequisite: 100h.

**330b-2 Theory of Football Coaching.** Deals with all phases of the game; offensive and defensive formation analyzed; strengths and weakness of each studied; various types of individual plays analyzed; rules discussed. Prerequisite: 100g.

**331a-2 Theory of Swimming Coaching.** Treatment of foundations and principles underlying coaching methods; comparative study differences in prevailing theories and methods; development of programs of training in pre-season, mid-season, and post-season of competition. Prerequisite: 100a.

**331b-2 Theory of Baseball Coaching.** A study of the strategy of the game; the



conduct of daily practice; analysis of the rules and their application to play situations. Also effective methods of coaching for best results. Prerequisite: 100i.

**331c—2 Theory of Track and Field Coaching.** Theoretical concepts dealing with the effective performance in running and field events; special emphasis on methods of training for such events; methods of organizing and conducting track and field meets. Prerequisite: 100j.

**331d—2 Theory of Wrestling Coaching.** Prepares students to develop program of wrestling; includes comparative knowledge of problems, techniques, materials, and systems in coaching wrestling as well as the organization and administration of the wrestling program. Prerequisite: 100m.

**331e—2 Theory of Tennis Coaching.** Theory of advanced strokes, strategy and tactics, scheduling and conducting matches, tournaments, exhibitions and clinics; officiating; organizing and promoting development programs. Prerequisite: 100c.

**331f—2 Theory of Gymnastic Coaching.** Deals with all phases of gymnastics; organization of dual meets, championships, and exhibitional teams; practice schedules; care and purchase of equipment; development and evaluation of exercises and routines; techniques of judging. Prerequisite: 100k.

**335—2 Administration of Aquatics.** The organization, administration, and supervision of aquatic programs in institutional and community swimming pools and camp waterfronts; the construction, operation, and maintenance of pools and waterfronts; personnel and program problems.

**341—3 Principles of Physical Education.** An understanding of the scientific foundations of physical education as implied by the accepted principles of psychology, physiology, sociology, biology, educational method of philosophy, anatomy, kinesiology, and related areas. Senior year.

**345a—1 Officiating of Fall Sports.** Interpretation of rules in football, cross country, and soccer; techniques of officiating; code of ethics, for officials and players; problems of officiating. Officiating practice required.

**345b—1 Officiating of Winter Sports.** Interpretation of rules in basketball, wrestling, and swimming; techniques of officiating; code of ethics for officials and players; problems of officiating. Officiating practice required.

**345c—1 Officiating of Spring Sports.** Interpretation of rules in baseball, track and field, tennis and golf; techniques of officiating; code of ethics for officials and players; problems of officiating. Officiating practice required.

**350—Methods and Materials for Teaching Physical Education Activities in the Elementary School.** The organization and conduct of the program with special emphasis on program planning, evaluation of materials, observation and practice in creative rhythms, singing games, folk dancing, and games of low organization. Two hours lecture; 2 hours laboratory.

**354—3 Organization and Administration of Physical Education and Athletics.** The organization and conduct of the total program of physical education including interscholastic athletics based upon accepted educational policies and practices. Emphasis on problems of administration.

**355—2 Assisting Techniques.**

**370—3 to 4 Tests and Measurements in Physical Education.** Measurements as an aid in determining student needs, curriculum construction, teaching effectiveness, and the attainment of educational objectives. Includes the selection, administration, and interpretation of tests. Three hours lecture; 2 hours laboratory.

**376—3 Care and Prevention of Athletic Injuries.** The theoretical and practical methods of preventing and treating athletic injuries; techniques of taping and bandaging; emergency first aid; massage; use of physical therapy modalities. Two hours lecture; 2 hours laboratory. Prerequisite: Physiology 300 and GSA 301.

**377—1 Horseback Riding.**

**378—1 Canoeing and Boating.**

**400—4 Evaluation in Physical Education.** Historical background of measurement in physical education; selection and evaluation of contemporary testing devices; structure and use of tests; administering the testing program; and interpretation and application of results. Fulfills the tests and measurements course requirements for the Master of Science degree.

**402—3 Organization and Administration of Intramural and Extramural Activities.** Planning intramural programs of sports; planning and coordinating extramural activities commonly associated with physical education.

**403—4 The Adaptation of Physical and Recreational Activities to the Handi-**

- capped Individual.** Recognition of postural deviations; devising and planning programs for the physically atypical.
- 404-4 The Teaching of Sports.** Teaching methods, officiating, organization, safety precautions, and selecting equipment for sports.
- 405-4 Current Theories and Practices in the Teaching of Dance.** History and evolution of dance; place of dance in education.
- 406-4 Basic Concepts of Physical Education.** The place of physical education in the school program, and the concepts underlying the program. (Required of all students not presenting the undergraduate courses 354 or 340.)
- 407-4 Scientific Basis of Athletic Training.**
- 408-2 to 4 Workshop: Physical Fitness—Its Role and Application in Education.** Improvement of programs and teaching techniques involved in the development of various aspects of physical fitness. Units on postural status; body weight control; tension factors, causes, and control; exercise tolerance; and general body mechanics and control.
- 420-4 Physiological Effects of Motor Activity.** The general physiological effects of motor activity upon the structure and function of body organs; specific effect of exercise on the muscular system. Prerequisite: Physiology 209 or equivalent.
- 475-2 to 4 Individual Research.** (Selected areas with 2 to 4 hours in each.)
- 500-4 Techniques of Research.**
- 501-4 Curriculum in Physical Education.**
- 502-4 Foundations of Motor Skills.**
- 503-4 Seminar in Physical Education.**
- 504-4 Problems in Physical Education.**
- 508-3 Administration of Interschool Athletics.**
- 509-4 Supervision of Physical Education.**
- 510-4 (2,2) Motor Development.**
- 511-2 Analysis of Human Physical Movement.**
- 525-1 to 6 Readings in Physical Education.**
- 599-3 to 9 Thesis.**
- 600-2 to 48 Dissertation.**

### Physical Education—Women

- Basic Movement:** 113.
- Team Sports:** 114, 224, 244.
- Aquatics:** 211, 271, 316, 317, 378.
- Individual Sports:** 216, 218, 228, 229, 328, 377.
- Dance:** 212, 222, 242, 272, 374, 376.
- Officiating:** 311.
- Teaching Physical Education in Elementary School:** 319, 350.
- Teaching Physical Education in Secondary School:** 301, 304, 360, 361, 362, 363.
- Camping:** 348.
- Professional Courses:** 303, 308, 351, 352, 353, 354, 355, 370.

- 113-1 Basic Movement.**
- 114-1 Speedball.** Techniques and team tactics.
- 211-1 Intermediate Swimming.** Prerequisite: pass beginning swimming test.
- 212-1 Beginning Contemporary Dance.** Fundamentals of movement and composition. A basic course culminating with experiences in contemporary dance composition.
- 216-1 Archery.**
- 218-1 Intermediate Fencing.** Prerequisite: GSE 114m.
- 222-1 Folk Dancing.**
- 224-1 Basketball.**
- 228-1 Tennis.**
- 229-1 Intermediate Golf.** Prerequisite: GSE 114e.
- 242-1 Square and Social Dance.**
- 244-1 Hockey.**
- 271-1 Sailing.**
- 272-1 Tap Dance.**
- 273-1 to 6 Dance Workshop.**
- 301-2 Techniques of Teaching Recreational Sports.** Analysis and methods of



teaching badminton, deck tennis, volleyball, table tennis, and other recreational sports.

**303–5 Kinesiology.** The mechanical analysis of physical education activities through the study of joint and muscle action. Prerequisite: Anatomy.

**304–10 (2,2,2,2,2) Techniques of Teaching Sports.** Methods of teaching, construction of daily lesson plans, and analysis of techniques. (a) soccer and volleyball; (b) hockey and speedball; (c) basketball; (d) tumbling, stunts, and gymnastics; (e) softball and tennis. Assistantship required during a,b,c,d, and e.

**308–5 Methods of Teaching Dance.** A course dealing with each of the various types of dance, including fundamental progressions, and composition in each type. Prerequisites: 212, 222 or equivalent.

**311–2 (1,1) Theory of Officiating Basketball.** Study of requirements of a nationally-rated official as set up by the Division for Girls' and Women's Sports.

**312–4 History and Philosophy of Dance.** The history and development of dance from primitive to contemporary forms.

**313–4 Dance Production.** Advanced dance techniques and choreography. Choreographic emphases including staging and production of dance. Prerequisite: GSE 113e or consent of instructor.

**316–1 Advanced Swimming.** Prerequisite: 211.

**317–1 Life Saving and Water Safety.** Techniques of Red Cross Life Saving and Water Safety. Prerequisite: pass intermediate swimming test.

**319–4 Teaching Elementary School Group Activities.** Study of age characteristics; planning of activity programs for all grade levels; techniques of teaching activities for elementary grades; fulfillment of the Illinois requirements for elementary school teachers. Prerequisite: Psychology 301 or Guidance 305.

**328–1 Intermediate Tennis.** Prerequisite: 228.

**348–2 to 4 Camp and Community Leadership.** Fundamentals of scouting, camping, and counseling. A weekend camping trip required.

**350–5 Materials and Methods in Elementary Schools.** For supervisors and teachers of physical education. Curriculum planning based on grade characteristics and educational philosophy, presentation of skills including skill tests, lead-up games, stunts and tumbling, games of low organization, creative rhythms, singing games, and folk dance.

**351–4 Recreation and Physical Education for Atypical Handicapped Individuals.** Techniques of physical examination; postural defects and their correction; activities suitable for the atypical; program building; and correlation of this program with the physical education curriculum.

**352–2 History of Physical Education.** A study of the background and development of physical education.

**353–4 Organization and Administration of Physical Education.** Criteria for the selection of activities; the organization of classes, the policies and the personnel; the physical plant and its upkeep; the planning, utilization, and care of equipment in the physical education program. Prerequisite: 354.

**354–2 Principles of Physical Education.** The scientific foundations applied to physical education.

**355–3 Techniques of Teaching Swimming.** Methods of teaching, analysis of strokes, and devices for teaching swimming and life saving. Prerequisite: 211 or equivalent.

**360–4 The Physical Education Program for Girls in Junior and Senior High Schools (workshop).** Program planning, source materials, and selected physical activities.

**361–1 to 4 The Teaching of Team Sports and Dance to Junior and Senior High School Girls (workshop).** Techniques of teaching volleyball, basketball, soccer, and dance.

**362–1 to 4 Teaching Basic Activities to Junior and Senior High School Girls.** Teaching badminton, softball, basic movement, and recreational games.

**363–1 to 4 Teaching a Sports Program for High School Girls (workshop).** Designed for teachers in service who have provisional certificates.

**369–4 Improving Teaching Through Testing (workshop).** Teaching aids, diagnostic measures, practice and standardized tests for a variety of physical skills. Principles of programmed learning applied to psychomotor tasks.

**370–3 to 4 Tests and Measurements in Physical Education.** The theory of measurement in health and physical education, the selection and administration of appropriate tests, and the interpretation of results. Projects required.



- 374-1 **Advanced Folk Dance.**
- 376-1 **Pre-Classic Dance Forms.** Prerequisite: 212 or consent of instructor.
- 377-1 **Horseback Riding** (fee required).
- 378-1 **Canoeing and Boating.** Prerequisite: pass swimming test (fee required).
- 400-4 **Evaluation in Physical Education.** Historical background of measurement in physical education; selection and evaluation of contemporary testing devices; structure and use of tests; administering the testing program; and interpretation and application of results. Fulfills the tests and measurements course requirements for the Master of Science degree.
- 402-3 **Organization and Administration of Intramural and Extramural Activities.** Planning intramural programs of sports; planning and coordinating extramural activities commonly associated with physical education.
- 403-4 **The Adaptation of Physical and Recreational Activities to the Handicapped Individual.** Recognition of postural deviations; devising and planning programs for the physically atypical.
- 404-4 **The Teaching of Sports.** Teaching methods, officiating, class organization, analysis of skills, and application of the principles of motor learning.
- 405-4 **Current Theories and Practices in the Teaching of Dance.** History and evolution of dance; place of dance in education.
- 406-4 **Basic Concepts of Physical Education.** The place of physical education in the school program, and the concepts underlying the program. (Required of all students not presenting the undergraduate courses 354 or 340.)
- 407-4 **Scientific Basis of Athletic Training.** The theoretical and practical methods of preventing and treating athletic injuries.
- 408-2 to 4 **Physical Fitness—Its Role and Application in Education.** Improvement of programs and teaching techniques involved in the development of various aspects of physical fitness. Units on postural status; body weight control; tension factors, causes, and control; exercise tolerance; and general body mechanics and control.
- 420-4 **Physiological Effects of Motor Activity.** The general physiological effects of motor activity upon the structure and function of body organs; specific effect of exercise on the muscular system. Prerequisite: Physiology 209 or equivalent.
- 475-2 to 4 **Individual Research.** The selection, investigation, and writing of a research topic under supervision of an instructor. (a) dance; (b) kinesiology; (c) measurement; (d) motor development; (e) physiology of exercise, and (f) history and philosophy.
- 500-4 **Techniques of Research.**
- 501-4 **Curriculum in Physical Education.**
- 502-4 **Foundations of Motor Skills.**
- 503-4 **Seminar in Physical Education.**
- 504-4 **Problems in Physical Education.**
- 508-3 **Administration of Interschool Athletics.**
- 509-4 **Supervision of Physical Education.**
- 510-4 (2,2) **Motor Development.**
- 511-2 **Analysis of Human Physical Movement.**
- 525-1 to 6 **Readings in Physical Education.**
- 599-3 to 9 **Thesis.**
- 600-2 to 48 **Dissertation.**

### Physics

- 111-9 (3,3,3) **College Physics.** Designed for all students of the sciences but restricted to freshmen who can satisfy the mathematics prerequisite at the beginning of the fall quarter. Prerequisite: Advanced standing in Mathematics 111a.
- 112-3 (1,1,1) **College Physics Laboratory.** Three hours of laboratory per week. Prerequisite: concurrent enrollment in 111.
- 206-9 (3,3,3) **College Physics.** Designed to meet preprofessional requirements and the needs of all students in the sciences, except physics and engineering. Must be taken in a,b,c or a,c,b sequence. Prerequisite: Mathematics 111b.
- 207-3 (1,1,1) **College Physics Laboratory.** One 3-hour laboratory period per week, taken concurrently with 206.
- 211-15 (5,5,5) **University Physics.** A basic course using calculus for science, mathematics and pre-engineering students. Laboratory. (a) Mechanics; (b)

Light, sound and heat; (c) Electricity and magnetism. Must be taken in a,b,c or a,c,b sequence. Prerequisite: Mathematics 150b (or equivalent) or concurrent enrollment.

**300–5 University Physics IV.** A continuation of 211 covering modern physics. Three lecture, two recitation and two laboratory hours per week. Prerequisite: 111, 206, or 211.

**301–3 Mechanics.** Intermediate theoretical particle mechanics using vector analysis. Prerequisites: 111a, 206a, or 211a; Mathematics 305a or concurrent enrollment; or consent of instructor.

**304–3 Thermodynamics.** A macroscopic study of the thermal properties of matter and the laws of thermodynamics. Prerequisites: 111b, 206b, or 211b and Mathematics 252b.

**305–6 (3,3) Introduction to Electric Theory.** Vector treatment of the theory, electrostatics in vacua and in matter, steady currents, electromagnetism and quasi-steady currents. Prerequisites: 111, 206, or 211; Mathematics 305a, or concurrent enrollment, or consent of instructor.

**307–2 Electrical Measurements.** A laboratory course illustrating basic electrical and magnetic properties and emphasizing precision in their measurement. Prerequisite: 305b or concurrent enrollment.

**309–3 Electric Circuits.** Electron tube and transistor circuit principles with applications to radio receivers, transmitters, and power supplies. Prerequisite: 111c, 206c, or 211c.

**310–3 Light.** Light propagation and optical instruments: reflection, refraction, interference, diffraction, and polarization of light. Prerequisite: 111b, 206b, or 211b.

**311–1 Optics Laboratory.** Advanced experiments in geometrical and physical optics. Three laboratory hours per week. Prerequisite: 310 or concurrent enrollment.

**312–2 Electric Circuits Laboratory.** Laboratory studies of properties of electron tubes and transistors and basic circuits employing them in power supplies, amplifiers, and oscillators. Prerequisite: 309.

**401–3 Mechanics.** Rigid body mechanics, normal coordinates, mechanics of continuous media, and advanced principles. Prerequisites: 301, Mathematics 455c.

**404–6 (3,3) Physical Electronics.** Kinetic theory and statistical mechanics with applications to electronic conduction in solids, vacuum, and gases, electron emission and ballistics; Bose-Einstein and Fermi statistics, electron theory of metals; semiconductors; quantum physical phenomena of the solid state. Prerequisite: 304, 305, 401 (or consent of instructor).

**405–3 Electronics.** Advanced theory and application of vacuum tubes and semiconductor devices as circuit elements in power supplies, oscillators, amplifiers, and shaping circuits. Prerequisites: 305 and 309 or consent of instructor.

**410–6 (3,3) Introduction to Electromagnetic Wave Theory.** A theoretical study of electromagnetic wave generation, propagation, and detection, with applications to microwaves and modern optics. Prerequisites: 305, 310.

**415–12 (3,3,3,3) Modern Physics.** Elements of wave mechanics, special relativity, atomic, molecular, and nuclear physics. Prerequisites: 301, 305, Mathematics 455c (or consent of instructor).

**418–1 to 4 Modern Physics Laboratory.**

**420–2 to 5 Special Projects.** Each student is assigned to a definite investigative topic. Adapted to advanced undergraduate students. Prerequisite: 301, 305.

**504–12 (4,4,4) Lattice Dynamics.** (Same as Applied Science 504.)

**510–9 (3,3,3) Classical Mechanics.**

**511–9 (3,3,3) Mathematical Methods of Physics.**

**520–2 to 5 Special Projects.**

**530–9 (3,3,3) Electromagnetic Theory.**

**531–9 (3,3,3) Quantum Mechanics.**

**532–9 (3,3,3) Advanced Quantum Mechanics.**

**540–9 (3,3,3) Nuclear Physics.**

**550–9 (3,3,3) Atomic and Molecular Spectra.**

**555–6 (3,3) Materials Structure Analysis.**

**560–9 (3,3,3) Statistical Mechanics.**

**570–9 (3,3,3) Solid State Physics.**

**575–1 to 4 Graduate Seminar.**

**580–3 to 6 Selected Topics in Physics.**

**590–1 to 9 Thesis.**



## Physiology

- 200-3 Occupational Therapy Orientation.** A survey and history of the field. The uses, techniques and philosophies of occupational therapy and its role in the treatment of disease and in rehabilitation. Three hours lecture per week.
- 215-3 Introduction to Pharmacology.** Use and action of drugs on the human body. Primarily for nurses. Three hours lecture per week.
- 300-4 to 5 Human Anatomy.** Lectures, demonstrations, and periodic observation of the prosected body. Lectures confined to bones, joints, muscles, and nerves. Primarily for students in physical education. Four hours lecture per week. One section, 300n, is reserved chiefly for nursing students. All bodily systems are reviewed. A 3-hour laboratory is substituted for one of the lectures.
- GSA 301-4 Principles of Physiology.**
- GSA 302-3 Psychobiological Foundations of Behavior.**
- 315-15 (5,5,5) Advanced College Physiology.** Lectures emphasize mammalian and human physiology whereas the laboratory involves function throughout the vertebrate classes. (a) Blood, circulation, and respiration; (b) digestion, excretion, and endocrines; (c) muscles, nervous system, and sense organs. Three hours lecture and 4 hours laboratory per week. Prerequisite: GSA 201c and 5 hours of chemistry.
- 410-15 (5,5,5) Advanced Anatomy.** Dissection of the human body. Primarily for students with a concentration in physiology and other biological sciences. Not a premedical course. Two hours lecture, 6 hours laboratory.
- 414-4 Anatomy and Physiology of Speech and Hearing Mechanisms.** The anatomy and physiology of the vocal apparatus. Primarily for students with a concentration in speech pathology. Three hours lecture, 2 hours laboratory.
- 415-8 (4,4) Experimental Animal Surgery.** Preparation of animals for surgery. Anesthesia, instruments, care of animal quarters, selected exercises. Two hours lecture, 4 hours laboratory. Part b may be elected independently of a.
- 417-6 (3,3) Principles of Pharmacology.** Action of drugs and other chemical substances upon the living organism. Physiological and biochemical events resulting from the action of drugs. Pharmacodynamics, chemo-therapy, toxicology, and therapeutics. Prerequisites: basic courses in chemistry and biological sciences. Two hours lecture, 2 hours laboratory.
- 430-12 (4,4,4) Cellular Physiology.** The nature and mechanism of the living cell. Chemical and physical aspects of vital activity. Required for graduate majors in physiology. Recommended for students interested in biochemistry and biophysics. Three hours lecture, 2 hours laboratory.
- 433-4 Comparative Physiology.** Fundamental physiological processes and the manner in which they vary in various groups of animals. Recommended for a concentration in physiology and for students in other biological sciences. Three hours lecture, 2 hours laboratory.
- 440-3 Electron Microscopy.** Lectures, demonstrations, and practical experience with the electron microscope. Fundamentals of specimen preparation. Open to students with advanced knowledge of any natural or physical sciences. Two hours lecture, 2 hours laboratory.
- 450-4 to 16 Special Problems in Physiology.** Selected problems in various aspects of physiology. Eight hours laboratory. Open only by permission.
- 460-12 (4,4,4) Mammalian Physiology.** Function and biochemical organization in mammals, especially man. Open to students with adequate courses in biological sciences and chemistry. (a) blood, circulation, respiration; (b) digestion, excretion, endocrines; (c) nervous system sense organs. Three hours lecture, 4 hours laboratory.
- 465-6 (3,3) Introduction to Biophysics.** Application of the analytic methods of the physical sciences to physiology. Molecular aspects of control systems governing vital processes. Three hours lecture. Prerequisite: one year physics.
- 500-1 to 9 Advanced Seminar.**
- 519-4 Experimental Pharmacology.**
- 520-9 (3,3,3) Physiological Technics.**
- 521-1 to 6 Readings in Current Physiological Literature.**
- 540-8 (4,4) Advanced Comparative Physiology.**
- 550-3 Radiation Biology.**
- 565-3 Biophysics.**
- 599-3 to 9 Thesis.**
- 600-4 to 36 Doctoral Dissertation.**

### Plan "A"

151-12 (3,3,3,3) Honors Seminar.

251-12 (3,3,3,3) Honors Seminar.

351-9 (3,3,3) Honors Seminar.

391-9 (3,3,3) Honors Seminar.

### Plant Industries

**103-4 Introductory Study of Soils.** An introduction to soils and fertilizers, to their role in crop production, and to their management and conservation. Prerequisite: high school chemistry or consent of instructor.

**264-4 General Horticulture.** General principles of plant propagation, vegetable growing, fruit growing, landscape gardening, and floriculture. Field trip. Seniors cannot enroll without consent of department.

**301-4 Soil Science for Foresters.** (Same as Forestry 301.) Basic concepts of soil formation, classification, characteristics, fertilization, and management as they apply to the growth of trees. Field trips. Prerequisite: one course in chemistry and a concentration in forestry.

**302-3 to 4 Advanced Soil Science.** Basic principles of soil physics, chemistry and fertility as they relate to plant production. Prerequisite: 103 or 301.

**304-3 Landscape Gardening.** Land selection, landscape design and development for home, farm, and public sites with regard to area adaptation. Field trips.

**306-5 (3,2) Soil and Water Conservation.** (Same as Agricultural Industries 306.) (a) The study of the theoretical factors affecting soil erosion and excessive water run-off, including practices of water management and soil conservation. Prerequisite: one course in soils; (b) Laboratory. Practical structure methods of controlling water run-off and soil erosion. Prerequisite: 306a or concurrent enrollment.

**309-4 Field Crop Production.** Principles of growth and production of common field crops: cereals, forages, and miscellaneous crops; growth characteristics; adaptation; improvement; culture; diseases and insects and their control; utilization. Field trip. Prerequisite: GSA 201b.

**315-4 Plant Genetics.** (See Botany 315.)

**316-4 Small Fruits.** Production of strawberries, brambles, grapes, and miscellaneous small fruits. Field trips. Prerequisite: GSA 201c or concurrent enrollment or consent of department.

**317-4 Insect Pests and Their Control.** (See Zoology 316.)

**320-5 Elements of Plant Physiology.** (See Botany 320.)

**324-4 Orchardling.** Commercial tree fruit growing, physiology, orchard practices, pest control, harvesting, and marketing. Field trips. Prerequisites: 264, GSA 201c or concurrent enrollment.

**334-4 Preservation and Processing of Agricultural Products.**

**344-4 General Floriculture.** Propagation, culture, and uses of flowering plants in the home and garden. Field trips. Prerequisite: GSA 201c.

**381-1 to 2 Agricultural Seminar.** (Same as Agricultural Industries 381, Animal Industries 381, and Forestry 381.) Discussion of problems in agriculture. Limited to senior students.

**390-1 to 6 Special Studies in Plant Industries.** Assignments involving research and individual problems. Prerequisite: consent of chairman.

**401-4 Soil Physics.** Physical properties of the soil; factors affecting them, their measurements, evaluation, and influence in determination of soil productivity. Prerequisite: 103 or 301.

**402-4 Soil Morphology and Classification.** Morphology and soil formation, description and identification of soil profiles, classification of soils, techniques of soil mapping, and interpretation of survey data. Field trips. Prerequisite: 103 or 301.

**404-3 Turf Management.** Principles and methods of establishing and maintaining turf for homes, recreational areas, and public grounds. Study of basic plant and soil materials, fertility, culture, water management, and pest control as related to turf-grasses in variable environments. Field trips. Prerequisite: GSA 201c or equivalent; course in soils recommended.



**406—4 Radioisotopes, Principles and Practices.** Basic characteristics of radio-active materials and detection systems. Application of radioisotope technology to biologically related sciences, such as agriculture; includes requisite health physics safety practices. Prerequisite: Biochemistry, or physiology, or consent of department.

**407—5 (3,2) Fertilizers and Soil Fertility.** (a) Lecture. The uses of fertilizer material; effects of various fertilizers on soils and crops; fertility maintenance and soil management. Prerequisite: one course in soils; (b) Laboratory. The laboratory study of the chemistry and fertility of soils. Parallels the theoretical presentation given in 407a. Prerequisite: 407a or concurrent enrollment.

**408—4 World Crop Production.** Ecological and physiological considerations used in the interpretation of crop research data, with emphasis on modern developments and trends in production and research of major agronomic crops. Prerequisite: 309.

**415—3 Plant Breeding.** The relationship between certain aspects of genetics, plant anatomy, developmental morphology, and cytology and their application to practical breeding of horticultural, agronomic and forest plants. Induction and utilization of mutations, including polyploidy, will be emphasized. Prerequisite: Course in Genetics, Botany or Plant Industries 315, Animal Industries 332, Zoology 401.

**418—4 Weeds and Their Control.** Losses due to weeds, weed identification and distribution, methods of weed dissemination and reproduction. Mechanical, biological, and chemical control of weeds. State and federal legislation pertaining to weed control herbicides. Herbicide commercialization. Field trips. Prerequisite: GSA 201c or concurrent enrollment.

**419—4 Forage Crop Management.** Forage crop production and utilization; forage crop characteristics, breeding, and ecology; grasslands as related to animal production, soil conservation, crop rotation, and land use. Prerequisite: GSA 201c.

**424—5 (3,2) Soil Microbiology.** (a) Lecture. A study of the numbers, characteristics, and biochemical activities of soil micro-organisms, with particular consideration of their role in the transformations of organic matter, nitrogen, and minerals as related to soil fertility and management. Prerequisite: one course in Microbiology or soils; (b) Laboratory. Experiments designed to determine numbers, and to study the characteristics and biochemical activities of the soil microflora as related to fertility. Prerequisites: 424a, or concurrent enrollment, Microbiology 301.

**438—5 Vegetable Production.** Studies of the effects of physiological and morphological factors affecting the culture, harvesting, and marketing of commercial vegetables. Prerequisites: 264, GSA 201b or equivalent.

**440—3 Plant Propagation.** Fundamental principles of asexual and sexual propagation of horticultural plants. Actual work with seeds, cuttings, grafts, and other methods of propagation. Prerequisites: 264, GSA 201b or consent of department.

**455—5 Plant Pathology.** (See Botany 456.)

**456c,e—4 (2,2) Agricultural Marketing Problems and Practices.** (See Agricultural Industries 456c,e.)

**506—2 Laboratory Methods for Radioisotopes.**

**507—3 Advanced Soil Fertility.**

**520—1 to 6 Readings.**

**575—1 to 6 Research.**

**581—1 to 6 Seminar.**

**599—2 to 9 Thesis.**

### Printing and Photography

**259—3 to 30 Printing Skills.** A variable-credit course into which students from other institutions and the Southern Illinois University Vocational-Technical Institute may transfer credit for courses in printing.

**260—12 (4,4,4) Fundamentals of Still Photography.** Cameras, lighting, and black-and-white film and print processing techniques with emphasis on (a) their application to photography as a communications medium; (b) the view camera and negative and print controls. Studio and darkroom work; (c) Color Photography. A study of the principles of color as related to color photography. Work in making color transparencies, with interior and exterior light.



Color negative exposure and an introduction to direct color printing. Must be taken in a,b,c sequence.

**302-3 Advanced General Typography.** Advanced work in copy preparation, copy fitting and layout problems.

**303-4 Portrait Photography.** An introduction to posing, lighting, retouching and finishing of portraits. Studio experience. Prerequisite: consent of department.

**308-7 (4,3) Photolithography.** Theory and practice of layout, copy preparation, photography, stripping, plate making and presswork for offset lithography. Must be taken in a,b sequence. Prerequisite: 271a.

**309-12 (4,4,4) Commercial and Illustrative Photography.** Advanced work in product, architectural, and illustrative photography in black-and-white and color. Prerequisite: 260c.

**312-3 Paper.** Historical background, materials and methods used in today's modern mills; sources and method of distribution; classification of printing papers—grades, weights, sizes, and quantities; selection to meet end-use specifications; trade customs; testing and quality evaluation; calculating requirements and cost determination. Prerequisite: 271b.

**314-3 Bindery.** Practical use of bindery equipment. Survey of bindery and finishing operations as they pertain to sheet work, pamphlet binding, case-bound and edition book binding. Equipment common to all types of binding is studied as well as special purpose manual and automatic facilities.

**341-10 (4,3,3) Cinematography.** (a) The fundamentals of cinematography, basic to further work in any kind of cinema production. Includes study of lenses, cameras, films, lighting, exposure, continuity, animation, titles, and editing; (b) Sound motion picture production. Study of film types. Laboratory consists of production of short sound films with commentary, music, and effects; (c) Production of a lip-synchronous sound film. Must be taken in a,b,c sequence.

**360-8 to 12 (3,3,2-6) Publications Photography.** (a) Work in visual news reporting with emphasis on short picture series and picture stories with captions and text. Prerequisite: 260a; (b) Production of picture essays including subject research, layout, captions, and text. Includes study of historic and current picture essays. Prerequisite: 360a; (c) Picture assignments for campus and other publications. Prerequisite: 360a.

**364-3 Picture Editing.** Selection, cropping, and layout of pictures for publications.

**365-3 Printing Operation Analysis.** Classification of printed matter by format and design for end-use purposes; determination of materials used and operations performed; comparative evaluation with respect to other processes, methods and facilities. Prerequisite: 312.

**366-3 Printing Cost Analysis.** Study of pricing methods and practices showing the allocation of materials and labor costs; application of cost accounting methods in the determination of actual vs. budgeted hour cost rates; distribution of administrative and manufacturing expenses; record keeping and the application and use of data processing equipment. Prerequisite: 365 and Accounting 250.

**379-9 (3,3,3) Printing Production.** Study of all aspects of printing production and plant operation. Functions and responsibilities of general management. Marketing, advertising, and selling techniques. Financial management with its attendant records and controls. Manufacturing practices, including organization, facilities, plant layout, production and quality control, procurement, warehousing and inventory. Industrial relations, including a survey of the jurisdiction, aims, and policies of the printing and related graphic arts trade unions. Must be taken in a,b,c sequence. Prerequisite: 365. May be taken concurrently with 381a,b.

**381-8 (4,4) Estimating.** A comprehensive study of estimating methods with extensive practice in the preparation of letterpress and offset printing cost forecasts as the basis for selling and production control. Duties and responsibilities of the estimator. Sources of production data, industry standards and performance records. Use of time and motion studies. Must be taken in a,b sequence. Prerequisite: 365.

**384-3 Seminar in Printing Management.** Subjects relating to some phase of printing plant operation, management problems or new graphic arts developments are assigned for original research and study. A comprehensive term report is required after periodic progress reports have been subjected to class discussion. Prerequisite: 379b.



**401-3 History of the Cinema.** History, esthetics, and appreciation of the cinema. Screenings of films of representative type and historical significance. Not open to students who have had GSC 349.

**402-3 History of Still Photography.** History, esthetics, and appreciation of still photography. Not open to students who have had GSC 348.

**411-1 to 10 Workshop in Still Photography.** Work on magazine picture assignments and internships. Prerequisite: consent of department.

**412-1 to 6 Workshop in Cinema Production.** Crew work on university film productions. Prerequisite: consent of department.

**428-3 Managing the Industrial Photographic Unit.** A study of practices, procedures, administration, and management of typical units.

**429-3 Photographic Methods in Science and Technology.** Photomicroscopy, specimen photography, infrared and ultra-violet photography, high-speed and time-lapse motion pictures, slide and filmstrip making.

**431-1 to 6 Problems in Still Photography and Cinematography.** Special projects for advanced students in still photography and cinematography. By permission.

### Psychology

**211-8 (4,4) Principles and Methods of Psychology.** An introduction to the experimental methods utilized in the study of behavior. (a) The application of methods to the study of sensation, perception, and learning; (b) the analysis and interpretation of psychological data. Lecture and laboratory. Prerequisite: GSB 201c.

**301-4 Child Psychology.** A study of the biological and psychological development of the child from birth through puberty, and of relevant research methods and results. Prerequisite: GSB 201c.

**GSA 302-3 Psychobiological Foundations of Behavior.**

**303-4 Adolescent Psychology.** Examines the physical and psychological development of the adolescent, and the relevance of childhood development to adolescent problems. Prerequisite: GSB 201c.

**304-4 Psychology of Maturity and Old Age.** A consideration of psychological factors in later maturity and old age and their concomitant problems, both individual and societal. Prerequisite: GSB 201c.

**305-4 Psychology of Personality.** A study of the inferred patterns underlying an individual's unique reactions to his environment. Investigates the motivations, development, and methods of changing these patterns, and how personality processes are studied. Prerequisite: GSB 201c.

**307-4 Social Psychology.** Introduction to the study of the individual's interaction with his social environment. Considers problems of social learning, attitude formation, communication, social influence processes and group behavior. Prerequisite: GSB 201c.

**311-4 Experimental Psychology: Learning.** Investigates the processes governing behavioral change. Experimental studies of conditioning, memory, and forgetting will be emphasized. Laboratory work will include the design and conduct of experiments with humans and animals. Lecture and laboratory. Prerequisite: 211a,b.

**312-4 Experimental Psychology: Perception.** Investigates the variables influencing an organism's stimulation by his environment. The structure and operation of the sense organs as well as complex perceptual phenomena are examined in lectures and laboratory. Prerequisite: 211a,b.

**313-4 Experimental Psychology: Motivation.** An examination of both biological and social variables influencing the activation, direction, and maintenance of behavior. Laboratory work will examine the effects of motivation upon behavior. Lecture and laboratory. Prerequisite: 211a,b.

**314-4 Experimental Psychology: Comparative and Physiological.** An examination of the physiological and phylogenetic variables affecting behavior. The laboratory will involve work with different types of organisms, emphasizing physiological concomitants of behavior. Lecture and laboratory. Prerequisite: 211a,b.

**320-4 Industrial Psychology.** A study of the use of psychological methods in the analysis of human factors problems in business and industry. Prerequisite: GSB 201c.

**322-4 Personnel Psychology.** A study of the use of psychological methods in



the selection, placement, and evaluation of personnel in business and industry. Prerequisite: GSB 201c.

**323-4 Psychology of Employee Relations.** Job satisfaction and morale, psychological aspects of labor relations, interviewing methods, and human relations training. Lecture. Prerequisite: GSB 201c.

**399a-3 to 9, 399b-3 to 12 Research and Investigation.** Honors. Intensive study in selected areas for students qualified for honors work in psychology. A research paper or equivalent will be required. Prerequisite: consent of chairman. (a) For juniors; (b) for seniors.

**404-4 Theories of Perception.** An examination of the different theories concerned with an organism's sensory contact with his environment. Physiological, social, and organizational theories of perception will be considered. Prerequisite: 312 or consent of instructor.

**406-4 Learning Processes.** Processes by which individual behavior is changed, using procedures developed in the learning laboratory. Introduction to major concepts and data of learning. Prerequisite: 311 or consent of instructor.

**407-4 Theories of Learning.** Consideration of contemporary theories and their relation to experimental data. Prerequisite: 211a, b or consent of instructor.

**408-4 Theories of Motivation.** An examination of instinct theories, biological drives, emotions, social motives, and psychodynamic theories as they contribute to a comprehensive psychology of motivation. Prerequisites: 313 or consent of instructor.

**409-4 History and Systems.** Study of the important antecedents of contemporary scientific psychology. Considers issues, conceptual developments, and research advances, and presents the major schools and systems. Prerequisite: signed consent of psychology adviser.

**421-4 Psychological Tests and Measurements.** Principles of psychological measurement, including errors of measurement, techniques for estimating reliability and validity, techniques of test construction, and problems in assessment and prediction. The laboratory will include the use of selected instruments. Lecture and laboratory. Prerequisite: 211b or consent of instructor.

**424-4 Psychophysical Methods.** Survey of the major psychophysical methods, and their applications. Lecture and laboratory.

**431-4 Psychopathology.** Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.

**440-4 Theories of Personality.** A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.

**451-4 Advanced Child Psychology.** An examination of the concepts, methods, and problems of human development with consideration of both its psychological and psychosocial aspects. Prerequisite: 301 or 303 or consent of instructor.

**459-4 Theory and Practice in the Preschool.** Designed for those in nursery education and related fields. Examines the variety of topics and provides lectures, demonstrations, and practicum experience in the child study cooperative nursery. Prerequisite: consent of instructor.

**461-4 Advanced Social Psychology.** Examines current areas of interest in the study of social behavior: language behavior, communication, social influence, attitude change, interpersonal perception, etc. Emphasis is on the individual in the social context. Prerequisite: 307 or consent of instructor.

**465-4 Group Dynamics and Individual Behavior.** Examination of research and theory in the area of small-group interaction. Examines such topics as group structure and function, group-solving, leadership, etc. Prerequisite: 307 or consent of instructor.

**471-4 Work Methods and Measurement.** A study of the analysis and evaluation of jobs and the measurement of work performances by the use of standard time tables. Prerequisite: 320 or consent of instructor.

**490-1 to 16 Independent Projects.** Independent readings and projects in psychology. Prerequisite: consent of instructor and chairman.

**495-1 to 18 Seminar: Selected Topics.** Varied content. To be offered from time to time as need exists and as faculty interest and time permit. Prerequisite: consent of department.

**501-12 (4,4,4) Proseminar in General Psychology.**

**509-4 Instrumentation in Behavioral Science.**

**512-4 Sensory Processes.**



- 514–8 (4,4) **Physiological Psychology.**
- 520–4 **Research Design and Inference I.**
- 521–4 **Research Design and Inference II.**
- 522–4 **Research Design and Inference III.**
- 523–2 **Research Seminar.**
- 524–4 **Advanced Research Methodology.**
- 525–4 **Mental Test Theory.**
- 530–4 **Personality Theory and Dynamics.**
- 531–2 to 4 **Advanced Psychopathology.**
- 532–2 **Experimental Approaches to Personality.**
- 533–3 **Experimental Approaches to Psychopathology.**
- 536–4 **Fundamentals of Counseling.**
- 537–4 **Counseling and Psychotherapy.**
- 538–2 **Group Psychotherapy.**
- 541–4 **Psychodiagnostics I.**
- 543–6 (4,2) **Psychodiagnostics II.**
- 545–2 **Psychodiagnostics III.**
- 546–3 to 4 **Psychodiagnostics for Special Populations.**
- 547–2 **Assessment Procedures in Counseling.**
- 552–4 **Experimental Child Psychology.**
- 554–2 **Developmental Theory.**
- 556–2 **Psychological Treatment of the Child.**
- 561–4 **Social Influence Processes.**
- 562–4 **Observational Techniques and Content Analysis.**
- 564–4 **Communication and Group Behavior.**
- 571–4 **Industrial Motivation and Morale.**
- 572–4 **Industrial Training.**
- 573–4 (2,2) **Employee Selection and Evaluation.**
- 574–2 **Psychology of Industrial Relations.**
- 576–2 to 4 **Human Engineering.**
- 590–1 to 16 **Readings in Psychology.**
- 591–1 to 36 **Research in Psychology.**
- 593–1 to 18 **Practicum in Psychology.**
- 595–1 to 18 **Advanced Seminar.**
- 598–2 **Ethical and Professional Problems in Psychology.**
- 599–1 to 9 **Thesis.**
- 600–1 to 45 **Dissertation.**

### **Radio-Television**

- 161–4 **Radio-Television Speaking.** Oral and visual speaking techniques for various radio and television speaking situations such as studio announcing, musical and dramatic programs, interviews and newscasts. Extensive microphone and on-camera practice. Audio and video tape recording sessions, as well as radio and TV studio facilities for practice and performance.
- 251–3 **Survey of Broadcasting.** Examinations of the history of the American system of broadcasting, including discussions of the industry, network structure, and local station organization and economics. Similar examination of various systems of foreign broadcasting.
- 252–3 **Broadcast Production Analysis.** A comprehensive examination of requirements and techniques of effective broadcast productions, both radio and television, with specific production improving procedures. A basic requirement for those who would create and write effective broadcast productions of any magnitude, whether for commercial or educational broadcasting.
- 260–3 **Audio Control Room Practices.** Familiarization with and operation of Radio and Television Audio Control Room equipment, such as audio control consoles, turntables, tape recorders and microphones (types, and proper placement). This course also includes familiarization and operation of remote broadcasting equipment and facilities. Preparation for FCC Third Class License with broadcast endorsement. Recommended for Radio-TV Concentrations only.
- 310–3 **Radio-TV News.** The basic techniques of writing, re-writing, and editing news from local and wire service sources, for presentation on radio and television. Actual practice with the WSIU and WSIU-TV facilities are stressed. Prerequisite: Journalism 103, 201, 202, and 303.

**351-5 Programs and Audiences.** The structure of broadcast programs, programming objectives, audience characteristics, analysis methods, preparation of station program schedules. Development, organization and planning of new programs within limitations of budgets and local situations. Program revising. Prerequisite: 251.

**352-4 Broadcast Laws and Policies.** Legal aspects of broadcasting in America. Precedent legal cases and actions by the Federal Communications Commission. Industry and network codes. International agreements. Prerequisite: 251.

**353-2 Radio and Television in Education.** The history and role of radio and television in education. Philosophies for education by radio and television. Analysis of types of educational broadcasting, including in-school broadcasting, adult education, and service programs.

**355-3 Broadcast Persuasion Factors.** The analysis of persuasion factors and audience responses in terms of program schedules and production. Prerequisite: 351.

**360-3 Radio Announcing.** Radio Announcing techniques and extensive practice for various announcing situations. Emphasis is placed on vocal development and interpretation. Numerous audio recordings. Two 1-hour lectures and 2-hour laboratory each week. Prerequisite: minimum grade of C in 161.

**361-3 Television Announcing.** Television announcing techniques for such situations as voice-over-film, special events, on-camera studio programs, and commercial presentations. Television studio facilities and video tape facilities for practice and performance. Prerequisite: minimum grade of C in 161.

**363-4 Radio Program Production.** Techniques of producing and directing radio programs with emphasis on creative use of sound effects and music. Two hours of lecture and 4 hours of lab each week. Lab hours are devoted to actual production of radio programs for use on WSIU. Prerequisite: 260.

**364-4 Television Production.** The principles and procedures of television production. An examination of the various studio and control room personnel and their functions in production. An analysis of purposes, theories, and techniques that lead to excellence in quality television production. Prerequisite: 252.

**367-3 Radio-Television Production Survey.** General survey of production problems in radio and television, including problems of writing, announcing, production, direction, sales and management. No prerequisites. For Nonmajors only.

**369-4 Television Directing.** Instruction and practical experience in the directing of television programs. Techniques of directing all types of programs including news, instructional, remotes, panel and music. Two 1-hour lectures and one 4-hour laboratory each week. Prerequisite: 364.

**370-2 Films for Television.** The use of films and video tape in the television industry. Included are sections on local film production as well as programming and securing syndicated programs from outside sources. This course is designed for the student concentrating in television interested in programming and management.

**371-3 Techniques of Staging, Lighting and Graphics for Television.** A study of television studio set design, the various techniques of studio lighting, and the special demands of the graphic arts in television production. Prerequisite: 364 or consent.

**373-1 to 2 Advanced Radio Production Laboratory.** Staff work on WSIU-FM including actual production of radio programs from conception through completion. May be repeated. Must be repeated by students concentrating in radio-television for a total of 4 hours minimum, 8 hours maximum, but combined total of 373 and 374 cannot exceed 12 hours. Prerequisite: 363 or concurrently.

**374-1 to 2 Advanced Television Production Laboratory.** Staff work on WSIU-TV and Closed Circuit Television operations, including actual production of television programs from conception to completion. May be repeated. Must be repeated by students concentrating in radio-television for a total of 4 hours minimum, 8 hours maximum, but combined total of 373 and 374 cannot exceed 12 hours. Prerequisite: 364.

**375-1 to 4 Problems in Radio-television Programming.**

**375j-1 to 2 Individual Research Problems.** May be repeated, but for no more than a total of 4 hours. Assignments to be made through consultation with the chairman.

**375n-1 to 2 Production Problems.** May be repeated, but for no more than a total of 4 hours. Assignments to be made through consultation with radio-television instructors.



**377-3 Radio and TV Advertising.** Study and practical radio-television experience in designing and developing promotional and publicity campaigns for the radio and television media. Scope of study includes radio and television advertising and sales techniques, methods and skills. Prerequisite: Journalism 370 and 371, or consent.

**383-4 Broadcast Writing.** Various forms for radio and television including continuity, spot, feature, and program. Prerequisite: 363, 364.

**385-2 to 4 Radio-TV Special Events.** Actual practice in the production, from conception to completion, of various types of special news programs for radio and television, including newscasting, sports casting, special events broadcasting, women's programming, children's programming, farm programming, and home economics programming. May be repeated for a total of 4 hours. Prerequisite: 310.

**390-5 Broadcast Station Management.** Objectives, procedures, equipment, costs, and policies in radio and television station development, management and operation. Prerequisites: 251, 351, 352.

**393-3 Radio, Television, and Society.** The interrelation of radio and television with social habit patterns and with economic and political systems. International broadcasting. Prerequisite: 251, 351, 352.

### Recreation and Outdoor Education

**201-3 Leisure and Recreation.** Basic philosophical and historical foundations and development of leisure and recreation in light of economic, political, and social change.

**202-3 Programs in Recreation.** A study of essential elements and basic principles involved in the organization and administration of various types of recreation programs with emphasis on leadership processes. Prerequisite: 201.

**301-4 Outdoor Education.** To acquaint students with the philosophy and techniques of teaching in the out-of-doors. Ways and means of various outdoor learning experiences.

**302-3 Institutional Recreation.** An introduction to the philosophy, objectives, and basic concepts of therapeutic recreation. Emphasis on rehabilitation needs and "team" approach within institutional and community setting. Prerequisites: 201, 202.

**310-2 to 8 Social Recreation.** Methods and materials for planning and conducting social activities: (a) techniques; (b) dramatics; (c) leisurecrafts and (d) music and dance for groups of varying sizes and ages in a variety of social settings.

**320-3 Nature Interpretation.** Acquaints the student with opportunities for the interpretations of the natural phenomenon. Avocational as well as the vocational aspects of natural resources.

**330-3 Campcraft.** Leadership skills in the use of native materials and simple tools; identification and dietary use of wild fruits, berries and plants; outdoor cooking; construction of shelters and camp facilities; and other campcrafts.

**340-3 Activities for Special Populations.** Methods, materials, and leadership techniques for conducting social recreation for the physically handicapped, the mentally retarded, the aged, and other special populations. Prerequisite: 302.

**360-4 Playground Administration.**

**365-4 Recreation Administration.** Administrative procedures in park and recreation departments—organization, finance, personnel, facilities, program, public relations, and other areas of administration. Prerequisites: 201, 202, and 15 hours of recreation.

**368-4 Camp Management.** Principles and procedures of selection and supervision of personnel, program planning, food preparation, health and safety, camp maintenance, evaluation, and other responsibilities of camp administration. Prerequisites: 201, 202, and 15 hours of recreation.

**413-4 Safe and Healthful Living Outdoors.**

**425-4 Recreation Areas and Facilities.** Principles of planning, construction, management, and maintenance of shelters, utilities, sanitation structures, erosion control, and other related problems. Prerequisites: 201, 202, and 15 hours of recreation.

**490-4 to 16 Practicum.** Supervised practicum experience in a professional setting. Emphasis on administrative, supervisory, teaching and program lead-



ership in community, school, park and forest, institutional, and other recreation settings. Prerequisite: consent of department.

500-4 Principles of Recreation.

510-4 Outdoor Education Workshop.

520-4 Recreation Administration Workshop.

525-4 Special Population Workshop.

535-4 School and Community Recreation.

540-4 Recreation Survey and Planning of Facilities.

570-4 Seminar in Recreation and Outdoor Recreation.

596-2 to 9 Independent Study.

### Religious Studies

201-6 Biblical Studies. (a) Old Testament History and Literature; (b) New Testament History and Literature.

203-9 History of Western Religious Thought. (a) Early and Medieval. (b) Reformation Era; (c) Post Reformation and Modern.

301-3 Contemporary Western Religious Thought. A critical evaluation of current religious thought and movements.

### Secondary Education

310-4 History and Principles of Secondary Education. This course presents the nature, objectives, and current practices found in secondary schools throughout America. Prerequisite: Guidance 305 or Psychology 303, completion of 18 or more quarter hours in a declared concentration or consent of instructor.

315-3 High School Methods. Various types of procedures used for effective classroom teaching constitute the basis of study and discussion. The problem approach and unit method are stressed. Prerequisite: 310.

352-8 to 16 Secondary Student Teaching.

375-2 to 3 Readings in Secondary Education. Readings are selected on the basis of each student's background and future plans.

402-4 Aerospace Education Workshop. Teachers learn about current developments in this area and how to incorporate aerospace information into existing curricula. They study in some detail the social, political, and economic consequences of this era. Prerequisite: consent of instructor.

407-4 The Junior High School. The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum.

440-4 Teaching Reading in High School. A foundation course in how to teach reading in junior and senior high school: developmental and corrective reading programs; appraisal of reading abilities; methods and materials of instruction. Prerequisite: Guidance 305.

450-4 to 16-Field Training in Community Development Methods.

488-3 Teaching Social Studies in Secondary Schools. Deals with objectives, scope and sequence of curriculum, methods of teaching different courses and age groups, materials and evaluation. Prerequisite: Guidance 305.

490-4 Workshop in Economics Education. (See Economics 490.)

495-2 to 4 Seminar in Problems Related to Teaching Disadvantaged Youth.

506-4 Reading in the Secondary School.

507-2 to 4 Readings in Reading.

508-4 Seminar: Trends in Selected Areas in Secondary Schools.

509-4 to 8 Practicum in Reading.

510-4 to 8 Seminar: Problems in Reading.

514-4 Organization and Administration of Reading Programs.

516-8 to 12 Internship in Reading.

518-2 Supervision of Student Teachers.

521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.

544-9 NDEA Summer Institute for Teachers of German.

550-4 Core Curriculum in the Secondary School.

560-1 to 8 New Developments in Technological Education.

562-4 The High School Curriculum.

564-4 High School Principalship.

- 575—2 to 4 Individual Research. (Selected areas with 2 to 4 hours in each.)  
586—3 The Change Agent in Planned Change.  
589—2 Seminar in Community Development.  
591—4 Workshop in Current Problems in Secondary Education.  
596—5 to 9 Independent Investigation.  
599—3 to 9 Thesis.  
600—1 to 48 Dissertation.

### Secretarial and Business Education

Tests are given during the first week of all shorthand and typewriting courses to insure the correct placement of students in classes.

**201—9 (3,3,3) Typewriting.** Mastery of the keyboard, speed and accuracy in the touch operation of the typewriter, and skill and knowledge needed for vocational and personal uses. Must be taken in a,b,c sequence. (a) May not be taken for credit by students who have had previous high school or other formal instruction in typewriting; (b) Prerequisite: 201a or one semester of other formal instruction in typewriting and the ability to type at least 30 words per minute; (c) Prerequisite: 201b or two semesters of other formal instruction in typewriting and the ability to type at least 40 words per minute and to prepare simple business correspondence, tables, manuscripts and forms.

**221—12 (4,4,4) Shorthand and Transcription.** The Gregg shorthand system and the development of skill and knowledge required in taking dictation and transcribing it on the typewriter. Must be taken in a,b,c sequence. (a) May not be taken for credit by students who have had previous high school or other formal instruction in shorthand; (b) Prerequisite: 221a or one semester of other formal instruction in shorthand-transcription; (c) Prerequisite: 221b or two semesters of other formal instruction in shorthand-transcription and the ability to take sustained, new-matter dictation at 60 words per minute.

**241—1 Duplicating.** Skills and knowledges in (1) the preparation of master copies and stencils and (2) the operation of liquid and stencil duplicating machines. Prerequisite: 201 or equivalent.

**242—1 Calculating Machines for Accountants.** Fundamental knowledges and skills needed by accountants in the selection and use of calculating machines. Emphasis on special problems encountered by accountants.

**304—3 Advanced Typewriting.** Development of advanced skills in typing business correspondence, manuscripts, forms, and tables; preparation of copy from rough draft materials. Prerequisite: 201—9 or three semesters of other formal instruction in typewriting and the ability to type at least 50 words per minute and to prepare business correspondence, tables and manuscripts.

**324—8 (4,4) Advanced Shorthand and Transcription.** The development of high-level dictation and transcription skills and knowledges. Must be taken in a,b, sequence. Prerequisites: (a) 221—12 or three semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriter sustained, new-matter dictation taken at 80 words per minute. (b) 324a or four semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriter sustained, new-matter dictation taken at 100 words per minute.

**326—4 Executive Secretarial Procedures.** An advanced course for secretaries, covering such topics as personality and human relationships, office mail, office equipment, travel, sources of information, communications, and business reports. Prerequisite: 304.

**341—4 Office Calculating Machines.** Operation of basic types of office calculating machines, emphasizing the characteristic uses of each kind of machine in the office. Laboratory practice required.

**403—3 Teaching Typewriting.** Methods of instruction, skill-building principles and techniques, selection and preparation of instructional materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 201c or equivalent.

**404—3 Teaching Shorthand and Transcription.** Methods of instruction, skill-building principles and techniques, selection and preparation of instructional materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 324a or equivalent.

**405—3 Teaching General (Basic) Business Subjects.** Instructional methods and materials for, and the evaluation of pupil progress in, such basic business



subjects as general business, consumer education, economic geography, business law.

**406-4 Teaching Office Practice and Office Machines.** Instructional methods and materials for, and the evaluation of pupil performance in, office practice and office machines. Prerequisite: 341 or equivalent.

**408-3 Teaching Bookkeeping and Accounting.** Instructional methods and materials for, and the evaluation of pupil progress in, bookkeeping and accounting. Prerequisite: Accounting 251b or equivalent.

**414-6 (3,3) Organization and Administration of Cooperative Vocational Business Education Programs.** Prepares teachers and coordinators in accordance with the requirements of the Illinois State Plan for the Administration of Vocational Education. Philosophy and objectives of cooperative vocational programs, methods of selecting students and work stations, placing and supervising students on part-time jobs, preparation of instructional materials, job analyses, conducting related information courses, evaluating workers and work stations, advisory committees, public relations aspects of cooperative programs.

**415-6 Supervised Business Experience and Related Study.** Prepares teachers and coordinators in accordance with the requirements of the Illinois State Plan for the Administration of Vocational Education. Classroom study of the principles and problems of coordinating in-school and cooperative vocational business education programs; supervised occupational experience; classroom analysis and evaluation of on-the-job experiences of the members of the class in relation to their future work as coordinators and vocational teachers.

**426-4 Office Management.** The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities and layout of the office; office services, procedures, standards, and controls.

**427-4 Records Administration.** The development of records management from its inception, and the recognition of the need for paper work management. Stress on the use of information management techniques in support of organization management, control and evaluation. The course includes each phase of the life of records from creation to disposal or permanent retention. The capabilities of data processing, microphotography, and new developments in information handling equipment stressed throughout.

**500-2 to 5 Readings in Business Education.**

**501-2 to 5 Individual Research in Business Education.**

**502-4 Research in Business Education.**

**503-4 Tests and Measurements in Business Education.**

**505-1 to 6 Workshop in Business Education.**

**506-4 Principles and Problems of Business Education.**

**508-4 Administration and Supervision in Business Education.**

**509-4 Improvement of Instruction in General (Basic) Business Subjects.**

**510-4 Improvement of Instruction in Secretarial Subjects.**

**599-1 to 9 Thesis.**

## Sociology

Courses in sociology are listed according to numerical order. However, the second digit in the course number indicates its field as follows:

00-09 General Sociology

10-19 Methodology and Research Techniques

20-29 Social Psychology

30-39 Social Organization and Structure

40-49 Family

50-59 Sociology of Knowledge

60-69 Social Disorganization and Deviance

70-79 Special Fields

80-89 Applied Field

**301-4 Principles of Sociology.** The structure and functions of social relationship systems, both simple and complex. Analysis of processes of social differentiation, integration, and disorganization. Prerequisite: junior standing.

**302-4 Contemporary Social Problems.** Discussion and analysis of selected contemporary social problems with consideration of alternative courses of action. Prerequisite: 301.



**305—4 Social Institutions.** Concepts of institutions; origins, development, and variability of institutions; institutional lag and change. Prerequisite: GSB 201b or 301.

**306—4 Social Control.** The means and principles of social controls; social institutions as factors in control; techniques of directing social action. Prerequisite: GSB 201b or 301.

**308—3 Statistics for Social Science.** Methods and application of statistics in the social sciences. Statistical methods in demography, ecology, testing and guidance, social problems. Examination of empirical studies in these and related areas. Prerequisite: junior standing or consent of instructor.

**312—4 Elements of Sociological Research.** Types of research. Principles and steps in research procedure. Selected techniques. Prerequisite: 308 or equivalent.

**GSB 321—3 Socialization of the Individual.**

**322—4 Propaganda and Public Opinion.** Techniques and characteristics of propaganda; methods of measuring public opinion. Prerequisite: 301, or GSB 201b.

**GSB 325—3 Race and Minority Relations.**

**332—4 Social Organization.** An examination of the determinants of social organization; intensive analysis of institutional configurations, social stratification, and systems of social control; review of significant writing. Prerequisite: 301.

**333—4 Community Organization.** Factors involved in community organization; types, aims, and objectives; community diagnosis; individual case study of specific community. Prerequisite: 301 or GSB 201b.

**335—4 Urban Sociology.** The rise, development, structure, culture, planning, and problems in early and modern cities. Prerequisite: 301 or GSB 201b.

**336—4 Sociology of Rural Life.** The structure, functioning, and change of rural social life; study of informal groups, neighborhoods, and communities; social class and value orientation. Prerequisite: GSB 201b, or 301.

**338—4 Industrial Sociology.** Social organization and processes within the formal and informal structure of the industrial unit; research and experimental materials concerning social determinants of morale, status and role of the worker. Prerequisite: GSB 201b or 301.

**340—4 The Family.** The family in historic and contemporary society; evolution of the modern family; changes in family functions, structures, and roles. Prerequisite: GSB 201b or 301.

**GSB 341—3 Marriage.**

**351—4 Sociology of Religion.** Function of religious institutions in society and their relationship to other major social institutions; role in social control and group solidarity. Prerequisite: GSB 201b or 301.

**371—4 Population and Migration.** Characteristics of population, problems of growth, composition, distribution, differential fertility, international and internal migration. Prerequisite: 301 or consent of instructor.

**372—4 Criminology.** The nature of crime; criminal statistics; casual factors; theories and procedures in prevention and treatment. Prerequisite: GSB 201b or 301.

**373—4 Juvenile Delinquency.** Nature of juvenile delinquency; factors contributing to delinquent behavior; treatment and prevention. Prerequisite: GSB 201b or 301.

**374—4 Sociology of Education.** Methods, principles, and data of sociology applied to the school situation; relation of the school to other institutions and groups. Prerequisite: consent of instructor, or GSB 201b or 301.

**375—4 Social Welfare as a Social Institution.** Interdependence of social, cultural, political and economic factors in the history, theory and practice of social welfare, with special reference to development of the social work profession in response to welfare problems. Prerequisite: GSB 201b or 301.

**383—4 Introduction to Interviewing.** Theory and practice of interviewing as a means of gaining information, and of understanding and imparting the same. Focus is on the interview as a tool in social work, but principles are generally applicable. Prerequisite: GSB 201b or 301.

**406—4 Social Change.** Processes of social change in the modern world; culture lag and conflict of norms; individual and social problems arising from conflicting systems of social values and cultural norms. Prerequisite: GSB 201b or 301.

**412—4 Sociological Research.** Application of the scientific method to sociolog-



ical problems. The role of theory. Principles of good research design, measurement, sampling and analysis. Prerequisite: Graduate status or consent of instructor.

**415-3 Logic of the Social Sciences.** (See Philosophy 415.)

**424-4 Collective Behavior.** The behavior of people in large groups; collective interstimulations and emotions; crowds, audiences, and publics; mass stimuli and mass response. Prerequisite: GSB 321 or 322, or consent of instructor.

**426-4 Social Factors in Behavior and Personality.** How group situations and values affect behavior and shape personality; development of concepts, role-concepts, attitudes, values; theories of motivation; self-concepts; conflicting social values in relation to individual motivation. Prerequisite: GSB 321 or Psychology 305, or consent of instructor.

**427-4 Personality and Social Adjustment.** Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and nonadjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite: GSB 321 or Psychology 305 or consent of instructor.

**435-4 Social Stratification.** A comparative study of social class systems, with emphasis on the American systems. Relationships of class position to behavior in family, religion, politics, etc. Prerequisite: GSB 201b, or 301.

**438-4 Sociology of Occupations and Professions.** Natural history and institutional aspects of occupations in our society, cultural context of occupations in both primitive and modern society, preparation for jobs, human values in work, promotion and discharge, mobility, retirement. Prerequisite: GSB 201b, or 301.

**449-4 Sociology of Aging.** The social implications of an aging population; social adjustments to the aging process; personal adjustments to the roles and statuses of later maturity; a consideration of retirement and public assistance programs for older people. Prerequisite: GSB 201b or 301.

**450-4 Social Thought I: Before 1800.** The ideological basis of Western society. The classical foundations. Trends of thought from the Renaissance to the Enlightenment. Prerequisite: consent of instructor.

**451-4 Social Thought II: The Sociological Movement.** From Romanticism to Realism; rise and development of scientific social thought. Prerequisite: consent of instructor.

**453-4 Social Movements.** A sociological study of modern social movements; social and cultural backgrounds, forms of expression and organization; social structure of social movements, their role and function in modern society. Prerequisite: GSB 201b or 301.

**471-4 Principles of Demography.** Techniques in analyzing and evaluating data on human population; composition, birth and death rates, life tables, migration data, estimates of future trend. Practical uses of demographic techniques. Prerequisites: consent of instructor.

**472-4 The American Correctional System.** Principles of penology; history of punishment and prisons; criminal law, police function, criminal courts; the prison community; the juvenile court and related movements. Prerequisite: 372 or consent of instructor.

**481-4 Processes in Social Work.** Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, administration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: 375 or consent of instructor.

**482-3 Social Work in Selected Agencies.** Study of representative literature on casework in family, psychiatric, medical, school, military, child welfare, and correctional settings, and others. Case material study and discussion with field observation and practice. Prerequisite: 481.

**483-4 Current Problems in Corrections.** An exploration of contemporary problems in control and treatment of sentenced offenders, and a review of research trends in corrections. Prerequisite: 472 or consent of instructor.

**484-3 Survey Course in Marriage Counseling.** Survey and analysis of the field of marriage counseling; assessment of current practices and techniques in terms of contemporary sociological theory. Prerequisites: GSB 341, and consent of instructor.

**486-1 to 5 Independent Study in Community Development.** Individual study and projects designed to fit the needs of each student. Prerequisite: consent of instructor.

**487-7 (4,3) Community Development.** (a) The concepts of community devel-



opment and analysis of the social-psychological forces and processes involved in citizen study, planning and action directed toward the fuller development of communities in a democratic society; (b) Principles and procedures applicable to solving social problems in the context of a community development program. Laboratory period for field trips. Must be taken in a,b sequence. Prerequisite: 4 hours of sociology or equivalent.

**489a-4 Probation, Classification, and Parole.** An introduction to the structure and function of those elements of the correctional process primarily concerned with the evaluation, treatment, and control of offenders with particular attention to the casework components of the process. Prerequisite: 481 or consent of instructor.

**489e-2 to 4 Independent Study in Corrections.** Supervised readings or independent investigative projects in the various correctional aspects of crime control, institutional management, and specific correctional programs. Prerequisite: consent of instructor.

**501-4 Survey of Sociological Theory.**

**502-4 Seminar in European Sociological Theory: 1800-1910.**

**503-4 Seminar in European Sociological Theory: 1910 to the Present.**

**504-4 Seminar in American Sociology.**

**506-4 Seminar in Contemporary Sociological Theory.**

**513-2 Supervised Research.**

**519-4 Methodological Foundations of the Social Sciences.**

**521-4 Seminar in Social Psychology.**

**526-4 Quantitative Methods in Sociology I.**

**527-4 Quantitative Methods in Sociology II.**

**528-4 Quantitative Methods in Sociology III.**

**529-4 Sociological Measurement.**

**530-4 Research Design.**

**531-4 Research Analysis.**

**533-4 Ecology of Human Communities.**

**534-4 Seminar in Intergroup Relations.**

**535-4 Race and Education in American Society.**

**537-4 Sociology of Law.**

**538-4 Seminar in Industrial Sociology.**

**539-4 Sociology of Bureaucracy.**

**542-4 Seminar on the Family.**

**543-4 Seminar in Family Variability.**

**544-4 Seminar in Family Research.**

**545-4 The Family and Social Change.**

**561-4 Alcohol and Society.**

**562-4 Deviance and Disorganization.**

**563-4 Research Problems in Deviance and Disorganization.**

**564-4 Social Factors in Mental Disorders.**

**566-4 Community Organization and Disorganization.**

**572-4 Seminar in Criminology.**

**582-4 Criminal Law and the Correctional Process.**

**583-4 to 12 Supervised Field Work in Corrections.**

**584-4 Seminar in Correctional Program Management.**

**586-3 The Change Agent in Planned Change.**

**587-2 to 8 Individual Research in Community Development.**

**591-2 to 6 Individual Research.**

**596-2 to 12 Readings in Sociology.**

**599-2 to 9 Thesis.**

**600-1 to 48 Dissertation.**

### Special Education

**200-2 Orientation to the Education of Exceptional Children.** A survey of exceptional children. Program modification by regular classroom teachers is stressed.

**406-4 Techniques and Interpretation of Hearing Tests.** (See Speech Pathology and Audiology 406.)

**410a-4 Problems and Characteristics of the Emotionally Disturbed Child.** Diagnosis, screening, classroom management, placement considerations, goals, and the effective use of ancillary services. Emphasis on the understanding of



maladaptive behavior through principles of learning and behavior dynamics. Prerequisite: Psychology 301 or 303, or consent of instructor.

**410b—4 Problems and Characteristics of the Mentally Retarded Child.** Objectives, curriculum, methods, and materials of instruction for slow learners. Emphasis upon the principles of learning as they can be applied to this group. Observations. Prerequisite: Psychology 301 or 303, or consent of instructor.

**410c—4 Problems and Characteristics of the Gifted Child.** Designed to help teachers in the identification of and programming for gifted and talented children. Prerequisite: Psychology 301 or 303, or consent of instructor.

**410d—4 Problems and Characteristics of the Acoustically Handicapped Child.** Consideration of psycho-social and educational aspects of deafness. History and attitudes of society. The impact of auditory impairment on language development, education, and adjustment. Prerequisite: Psychology 301 or 303, or consent of instructor.

**411—4 Assessment and Remediation of Learning Disabilities.** (Same as Guidance 411.) Special tests and remedial programs designed for children with specific learning disabilities of a perceptual, or coordination nature and who may demonstrate related adjustment problems. Prerequisite: 414 and consent of instructor.

**413a—4 Directed Observation of Emotionally Disturbed Children.** Student observation and participation in group and individual work with emotionally disturbed children. Often taken concurrently with 410a. Prerequisite: consent of instructor.

**413b—4 Directed Observation of Mentally Retarded Children.** Student observation and participation in group and individual work with mentally retarded children. Often taken concurrently with 410b. Prerequisite: consent of instructor.

**413d—4 Directed Observation and Practice with Hard-of-Hearing Children.** Student observation and participation in group and individual work with hard-of-hearing children. Often taken concurrently with 515. Prerequisite: consent of instructor.

**414—4 The Exceptional Child.** Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisites: Psychology 301 or 303, or consent of instructor.

**415—4 Education of Acoustically Handicapped Children.** Comparison of language development in hearing and acoustically handicapped children. Survey of established systems of teaching language to the deaf. Principles and techniques in developing concepts, vocabulary, and basic English structures; receptive and expressive oral and written language. Prerequisite: consent of instructor.

**416—4 Introduction to Audiology.** (Same as Speech Pathology and Audiology 416.)

**419—4 Communication Problems of the Deaf and Hard of Hearing.** (Same as Speech Pathology and Audiology 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.

**420a—4 Methods and Materials for Teaching Emotionally Disturbed Children.** Prerequisite: 410a and consent of instructor.

**420b—4 Methods and Materials for Teaching Mentally Retarded Children.** Usually offered in conjunction with practice teaching. Prerequisite: 410b and consent of instructor.

**420d—4 Methods and Materials for Teaching Acoustically Handicapped Children.** Methods, materials, and techniques of teaching reading and elementary subjects to acoustically handicapped children in special education programs. Prerequisite: 410d and consent of instructor.

**421—4 Speech for Acoustically Handicapped Children.** A survey of methods in teaching oral language skill to acoustically handicapped children. Emphasis on use of visual, tactile, and kinesthetic sensory avenues in developing intelligible articulation, voice and sentence rhythm. Consideration of auditory training techniques in relation to speech development. Prerequisite: Speech Pathology and Audiology 200.

**428—4 Speech Correction for the Classroom Teacher.** (Same as Speech Pathology and Audiology 428.)

**496—2 to 8 Readings and Independent Study in Special Education.** Study of



a highly specific problem area in the education of exceptional children. Open only to selected seniors and graduate students. Prerequisite: 414 and consent of staff.

**501-4 Special Research Problem.**

**513-4 Organization, Administration, and Supervision of Special Classes.**

**515-4 Itinerant Teaching of Exceptional Children.**

**517-4 The Atypical Child and Social Agencies.**

**518-4 Workshop in Special Education.**

**577-4 to 12 Practicum in Special Education.**

**580a-4 Seminar: Education of Maladjusted Children.**

**580b-4 Seminar: Education of Mentally Retarded Children.**

**580d-4 Seminar: Education of Acoustically Handicapped Children.**

**590-4 Seminar: Education of Children with Mental Deviations.**

**591-4 Seminar: Education of Physically Handicapped Children.**

**592-4 Seminar: Education of Children with Learning and Behavioral Disorders.**

**596-4 to 8 Independent Investigation.**

**599-2 to 9 Thesis.**

**600-1 to 48 Dissertation.**

### Speech

**General Speech:** 408, 429, 440, 449, 450-12, 520, 530-1 to 4, 532, 599-2 to 9, 600-3 to 48.

**Oral Interpretation of Poetry:** 423, 424, 434, 523, 530-1 to 4, 599-2 to 9.

**Rhetoric and Public Address:** 407-8, 417, 418, 425, 500, 504, 505, 508, 510, 524, 530-1 to 4, 599-2 to 9.

**Speech Education:** 402, 410, 427, 511, 525, 530-1 to 4, 599-2 to 9.

**102-4 Public Speaking.** Analysis of audience motives and reactions stressed in the approach to speech preparation for typical public speaking situations. Prerequisite: GSD 103.

**104-4 Training the Speaking Voice.** Designed for those students who desire to improve their voice and articulation. Prerequisite: GSD 103.

**200-4 Phonetics.** Instruction on the use of phonetic symbols to record the speech sounds of midland American English, with emphasis on ear training, and a description of place and manner of production of these sounds.

**201-2 Parliamentary Law.** How to conduct a meeting. Study and practice of the rules of parliamentary procedure.

**202-3 Principles of Discussion.** Principles and methods of group discussion. Current problems used as materials for discussion.

**205-3 Principles of Argumentation and Debate.** Principles of argument, analysis, evidence, reasoning, fallacies, briefing, and delivery.

**209-1 Forensic Activities.** Not more than 3 hours of credit, and no more than 2 each year, to be secured for participating in forensic activities. Note: A maximum of 5 hours of 209 and 309 may be applied on a concentration in speech. A maximum of 8 hours of 209 and 309 may be applied toward graduation. Prerequisite: consent of instructor.

**300-4 Phonetics of American English.** Study of the phonetics of American English with particular emphasis in the major American dialects. Course designed especially for concentrations in speech, theater, and radio-TV. Prerequisite: 200 or consent of instructor and chairman.

**301-4 Persuasion.** Psychological principles involved in influencing individuals and groups.

**303-4 Business and Professional Speaking.** Speaking needs of business and professional people. Technical reports and lighter types of speaking included in the types studied. Primarily for adult and extension classes.

**304-3 Great Speeches in American and British History.** Speakers as they deal with historic issues in America and Britain.

**309-1 Forensic Activities.** Not more than 4 hours, and no more than 2 each year, to be secured for participation in forensic activities. Note: A maximum of 5 hours of 209 and 309 may be applied on a concentration speech. A maximum of 8 hours of 209 and 309 may be applied toward graduation. Prerequisite: junior standing and consent of instructor.

**313-4 Speech Composition.** Rhetorical techniques of public address. One major

speech prepared, with every possible refinement. Prerequisite: 102.

**323-4 Oral Interpretation II.** A basic course in the oral interpretation of literature with emphasis on vocal techniques in relation to literary analysis. Prerequisite: GSC 200 or consent of instructor.

**401-4 Creative Dramatics.** A study of the materials, techniques, and procedures for conducting sessions in informal drama with emphasis on its contribution to the total growth and development of the child. Lectures, observations, student participation, and practice.

**406-4 Teaching Speech in Secondary Schools.** Philosophy of speech education, and effective teaching of speech through curricular and extra-curricular work. Prerequisite: 16 hours of speech.

**407-8 (4,4) American Public Address.** Critical studies of American speakers; selected speakers and speeches which reflect the dominant social and political ideas in American history. A lecture, reading, and discussion course. Parts may be taken independently.

**408-4 Psychology of Speech.** Nature and development of speech, its basic psychology, and the part speech plays in personality development.

**417-4 Contemporary Public Address.** A critical study of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs since 1918. A lecture, reading, and discussion course.

**418-4 British Public Address.** Critical study of British speakers to c. 1920. Selection of material will be governed both by men and the issues that moved men throughout British history.

**422-4 Oral Interpretation of Prose.** The study of reading of prose literature emphasizing the specific problems posed for the oral reader by this form. Prerequisite: GSD 200, 323, or consent of instructor.

**423-4 Oral Interpretation of Poetry.** The reading of poetry and the interpretation of the thought and emotional content of the poetry to the audience. Prerequisite: GSD 200, 323.

**424-4 Oral Interpretation of Dramatic Literature.** Reading, selecting, cutting, and presenting various types of dramatic literature. Each student gives a final recital program of readings. Prerequisites: GSD 200, 323.

**425-3 Techniques of Discussion Leadership.** Studies in the field of group discussion designed to clarify the functions and concepts of the leader in democratic society.

**427-4 Secondary School Forensic Program.** Coaching and organizational methods for extracurricular and curricular forensic programs in the secondary schools.

**429-4 Experimental Studies in Oral Communication.** A survey, analysis, and criticism of experimental approaches to the study of oral communication, with practice in planning and conducting experimental studies.

**434-4 Lecture and Lecture-Recital.** Study of professional work on the public platform which is climaxed by a lecture or recital of a professional nature. Prerequisite: 12 hours of public speaking, interpretation, or theater.

**440-4 Advanced Phonetics.** Phonetic theory. Materials and methods of linguistic geography. Prerequisite: 200.

**441-4 Teaching Speech in Elementary Schools.** Study of oral language development in children, analysis of their speech needs, and methods of teaching speech in elementary schools with emphasis on speech improvement and development of basic speech skills.

**449-4 General Semantics.** Means of changing implications so that language, in spoken or written form, describes the life facts.

**450-12 (4,4,4) Laboratory in Interpersonal Communication.** Communication viewed as a process of relating and evaluating. Applications of general semantics and related philosophy, methodology, and research to the functioning of the class itself through various speech activities. The course encompasses the common core of communication behaviors relevant to the chief communication specialties.

**500-4 Survey of Classical Rhetoric.**

**501-10 NDEA Institute in Oral Communication.**

**504-4 Medieval Rhetorical Theory.**

**505-4 Modern Rhetorical Theory.**

**507-6 (3,3) Studies in Public Address.**

**508-4 Seminar: Studies in Discussion.**

**510-4 Seminar: Persuasion and Social Control.**



- 511-4 (2,2) Teaching the College Speech Course.
- 520-3 Philosophical Foundations of Speech.
- 523-3 Seminar: Problems in Interpretation.
- 524-6 (3,3) Problems in Rhetoric and Public Address.
- 525-4 Seminar: Speech Education.
- 527-3 College Forensic Program.
- 530-1 to 4 Research Problems.
- 532-4 (2,2) Areas and Techniques of Research in Speech.
- 599-2 to 9 Thesis.
- 600-1 to 48 Dissertation.

### Speech Pathology and Audiology

- 100-0 to 2 Speech Clinic. For students with speech and hearing deviations who need individual help.
- 104-4 Training the Speaking Voice. For those students who desire to improve their voice and articulation.
- 200-4 Phonetics. Instruction in the Use of phonetic symbols to record the speech sounds of midland American English, with emphasis on ear training, and a description of place and manner of production of these sounds.
- 203-4 Introduction to Speech Science. An introduction to the science of general speech including the history of research in the field and significant experimental trends in the future. Open to all students.
- 212-4 Articulatory Problems and Delayed Speech. Acquaints the student with articulatory speech defects. Diagnostic and therapeutic techniques stressed. Prerequisite: 200 or concurrent.
- 318-4 Voice and Cleft Palate. Voice disorders including cleft palate. Prerequisite: 212, or consent of instructor.
- 319-4 Stuttering. Deals with diagnostic and therapeutic techniques for the understanding and treatment of stuttering. Prerequisite: 212, or consent of instructor.
- 400-1 to 4 Independent Study in Speech Pathology and Audiology. Activities involved shall be investigative, creative, or clinical in character. Must be arranged in advance with the instructor. May be repeated for up to 6 hours.
- 405-12 (4,4,4) Practicum in Speech and Hearing Therapy. Clinical and school procedures in speech pathology and audiology. One hour of class per week, and 2 hours of clinical activity or work on clinically related projects for each hour of credit. (a) emphasizes therapeutic procedures; (b) emphasizes diagnostic techniques; (c) emphasizes the utilization of forms and the preparation of reports. Prerequisite: junior standing.
- 406-4 Techniques and Interpretation of Hearing Tests. Principles and techniques of testing the hearing and interpreting those tests in terms of the individual's needs. Prerequisite: 416 or consent of instructor.
- 409-4 Research Techniques in Speech Science. A presentation of the research techniques used in speech science with particular emphasis on equipment, experimental design, and study of significant research contributions to the field. Open to advanced students in speech or those with consent of instructor.
- 412-4 Cerebral Palsy. An investigation of the etiology, problems, and therapy of cerebral palsy. Prerequisite: 212, 414 or consent of instructor.
- 414-4 Anatomy and Physiology of Speech and Hearing Mechanisms. (See Physiology 414.)
- 415-4 Aphasia. An investigation of the etiology, problems, and therapy of aphasia. Prerequisite: 412, 414 or consent of instructor.
- 416-4 Introduction to Audiology. Provides the student with a basic orientation to the professional field of audiology, its history and its goals. Basic acoustics, the phylogeny, anatomy and physiology of the human ear, and significant pathologies of the ear are presented. Prerequisite: junior standing or consent of instructor.
- 419-4 Communication Problems of the Deaf and Hard of Hearing. (Same as Special Education 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.
- 420-4 Advanced Clinical Audiometry. Principles and procedures for advanced audiometric testing, advanced problems in bone conduction measurements, in evaluation of loudness recruitment, in topodiagnostic audiometry, and non-



organic hearing loss are presented. Practical techniques include speech audiometry, Bekesy audiometry, conditioned pure tone electrodermal audiometry, and use of the Zwislocki Acoustic Bridge. Prerequisite: 416 and 406 or consent of instructor.

**421-6 (3,3) Speech for Acoustically Handicapped Children.** (See Special Education 421.)

**428-4 Speech Correction for the Classroom Teacher.** (Same as Special Education 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.

**515-1 to 4. Readings in Speech Pathology.**

**516-4 Seminar in Psychoacoustics.**

**520-4 Seminar in Physiological Acoustics.**

**521-1 to 4 Seminar in Articulation and Delayed Speech.**

**522-16 (4,4,4,4) Seminar in Organic Speech Problems.**

**528-4 Seminar in Experimental Audiology.**

**529-12 (4,4,4) Seminar in Stuttering Behavior.**

**530-1 to 4 Research Problems in Speech Pathology & Audiology.**

**531-1 to 4 Seminar in Experimental Phonetics.**

**533-1 to 4 Seminar in Speech Science**

**534-1 to 4 Seminar in Instrumentation.**

**536-1 to 4 Seminar in Administration of Speech and Hearing Problems.**

**599-2 to 9 Thesis.**

**600-1 to 48 Dissertation.**

### Technical and Industrial Education

**217-4 General Typography.** After brief introductory work in screen and block typography, major portion of course is devoted to study of foundry type, type classifications, use of job cases, hand typesetting, layout, use of illustrations, and proof-pulling. Laboratory.

**302-4 Construction Methods for Primary Teachers.** Various media such as wood, metal, and paper. Acquainting the primary teacher with the materials, tools, and processes which students at the primary level can manipulate and use in the classroom. Laboratory.

**303-4 Diversified Crafts for Teachers and Recreational Leaders.** Experience in constructional activities involving the use of wood, metals, leathers, plastics, reed, raffia, clay, and other materials adaptable to the needs and interests of camp counselors and elementary school leaders. Laboratory.

**319-3 to 24 (3 per quarter) Industrial Internship.** Industrial experience includes job skills, manufacturing processes, technical information, and labor-management relationships with supervised instruction, conferences and examinations. Required of Vocational Teachers. Prerequisite: consent of coordinator.

**380-1 to 12 Special Skills in Teaching Technological Subjects.** Develops new and special industrial skills for teaching industrial and technological subjects. For advanced students and teachers to develop new but basic manipulative skills and understandings in selected areas. Prerequisite: 12 hours in Technical and Industrial Education.

**408-3 Teaching Aids in Technological Education.** Selection, development, analysis, cataloging, and use of commercial and self-made instructional aids and devices.

**419-8 to 16 Advanced Student Teaching in Technical Programs.** Experience in working with special and post-high school technical training programs in approved centers. The student teacher will follow the program of the supervisors of the primary specialization in both regular and extra-class activities. Prerequisite: 9 quarter hours professional Industrial Education. (graduate students only)

**425-2 to 8 Practicum in Technology.** Experiences in the industrial applications of technological knowledge. Cooperative arrangements with selected corporations and professional organizations provide opportunity to study technical problems in the industrial environment under the direction of specialists. Prerequisite: 12 hours in technical subjects.

**430-2 to 8 Special Problems in Industry and Technology.** Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of instructor.

**435-6 to 18 Manual Arts Internship.** Supervised hospital experience featuring



various applications of manual arts therapeutical treatments. Prerequisite: consent of coordinator.

**450-1 to 12 (1 to 4 per quarter) Advanced Skills in Technical Subjects.** Modern industrial practices and techniques in various selected technical fields. For experienced persons seeking an opportunity to develop advanced techniques and to increase understanding in specialized industrial fields. Emphasis on modern industrial processes, methods, materials, and techniques used in school shops, drafting rooms, and industrial organizations. Prerequisite: basic training in area selected for study. Limited to certified teachers.

**465-8 (4,4) Industrial Safety.** (See Engineering Technology 465.)

**480-3 Problems of Junior High School Industrial Arts.** Ways and means of correlating industrial arts with other curriculum areas, selecting content, and solving problems pertinent to industrial arts at the junior high school level. Prerequisite: 12 hours in technical subjects.

**485-3 Principles and Philosophy of Industrial, Vocational, and Technical Education.** An understanding of the nature and purpose of practical arts, vocational and technical education, their relationships and differences, and the place of each in preparing people for the world of work. Required for Vocational coordinators and supervisors.

**487-3 Layout and Planning of Technical Facilities.** Principles and practices underlying the planning and designing of shops and laboratories in vocational, industrial, and technical education. Prerequisite: 12 hours in technical subjects.

**491-6 (3,3) Principles of Industrial Teaching.** (a) Problems and special methods in teaching industrial arts; (b) Emphasis on methods of teaching trade subjects. May be taken in either sequence. Required for vocational teachers, coordinators and supervisors. Prerequisite: one-half of concentration must be completed.

**494-3 Organization and Administration of Industrial Education.** Principles and policies governing the administration of industrial education programs in elementary, junior, and senior high schools; relation of federal and state supervision of industrial education to local administration. Required for vocational teachers and supervisors. Prerequisite: 12 hours in technical subjects.

**495-3 Occupational Analysis.** Involves the fundamental steps for analyzing trades and other occupations with some thought toward establishing appropriate units of instruction for the apprentice or student. Jobs, operations, and essential related information are analyzed. Required for vocational teachers, coordinators, and supervisors. Prerequisite: 12 hours in technical subjects.

**496-3 Selection and Organization of Subject Matter.** Selection and arrangement of teaching content; preparation of assignment, operation, information, and job sheets; preparation of tests. Prerequisite: 12 hours in Technical and Industrial Education.

**497-3 Leaders and Literature in Technological Education.** An understanding of the literature available, one's obligation for keeping abreast of new developments, and emphasis on reading and scanning for new ideas in student's specialized field. Prerequisite: 12 hours in Technical and Industrial Education.

**498-3 Planning Multiple Activity Programs.** Philosophy, techniques, and administration of laboratories and shops featuring multiple offerings. Prerequisite: consent of instructor.

**502-6 (3,3) Measurements and Evaluations of Products and Procedures.**

**504-4 History of Industrial and Vocational Education.**

**505-4 Administration and Supervision of Industrial Education.**

**506-4 Cooperative Programs.**

**540-2 to 6 Research in Technological Education.**

**541-4 Occupational Information and Guidance.**

**550-4 College Teaching of Industrial and Technical Subjects.**

**560-2 to 12 (2 to 8 per quarter) New Developments in Technological Education.**

**570-2 to 6 Special Investigations.**

**580-1 to 9 Seminar.**

**599-1 to 9 Thesis.**

## Technology

**100-2 Orientation.** Introduction to the various phases of technology to enable the student to develop an understanding of the role of technology in industry



and in education and to help guide his thinking in relation to occupational goals.

**101-9 (3,3,3) Graphic Communication.** (a) Basic principles of graphic communication including orthographic (multiview) projection; sections and conventions; charts and graphs; pictorial drawing; and conceptual design. Six hours lecture-laboratory per week; (b) Principles and practice of graphic communication including auxiliary views; dimensioning and tolerancing; applications in technology; and conceptual design. Six hours lecture-laboratory per week. Prerequisite: 101a; (c) Principles of graphic communication. The graphical solution of problems involving the spatial relationships of points, lines, and planes. Six hours lecture-laboratory per week. Prerequisite: 101a.

**259-3 to 60 Shop and Drafting Subjects.** This is a designation for shop or drawing credit earned, or for trade proficiency, when credit is to be established by departmental evaluation. Prerequisite: junior standing.

**300-9 (3,3,3) Application of Fundamental Physical Principles.** A general coverage of applied science and the physical principles and systems which control man's exploitation of scientific discovery. (a,b) Quantitative applications of the principles of classical and modern physics with emphasis on the application of the laws of heat, wave motion, quantum theory, and atomic physics; (c) Introduction and analysis of the various technological and industrial systems, sub-systems, and components with special emphasis upon the design process, problem formulation, analysis, and decision phase. Prerequisite: Mathematics 111a,b, GSA 101a,b.

**319-3 to 24 (3 per quarter) Industrial Internship.** Industrial experience includes job skills, manufacturing processes, technical information, and labor-management relationships with supervised instruction, conferences and examinations. Prerequisite: consent of coordinator.

## Theater

**111-9 (3,3,3) Staging Techniques.** All phases of dramatic production in connection with departmental public presentations. Lectures and laboratory.

**203-4 Voice and Diction.** Principles and practice in personal vocal and articulatory development and control. General group drills in phonation, resonance and vocal variety; drills for clarity and ease in articulation. For specific vocal needs: individual exercises, coaching and critical comment; leading to increased effectiveness in formal reading and speaking situations.

**204-4 Acting.** Basic techniques of acting in all dramatic media. Emphasis on expression through bodily action and movement.

**207-4 Fundamentals of Theatrical Design.** Graphic media and workshop exercises acquaint students with the problems encountered by the director, scene designer, costumer, and lighting director in providing a suitable environment, by visual means, for the actor.

**208-1 to 3 Dramatic Activities.** Credit to be earned by participation in public performances.

**305-2 Stage Make-up.** Theory and technique of various types of make-ups.

**308-1 to 3 Dramatic Activities.** Same as 208.

**311-4 Introduction to Playwriting.** The preparation of a one-act play from germinal idea to completed script. Those scripts indicating a certain level of artistry and technical control to be produced in a laboratory theater program. Course includes the analysis of dramaturgical technique and theory through the study of selected plays and criticism. Prerequisite: one course in dramatic literature and consent of instructor.

**314-4 Advanced Acting.** Theory and practice of acting in dramatic productions.

**322-2 to 12 Practicum in Theater.** Practical experience in acting, directing, and associated theater work in area tours and summer stock. Credit may be earned for the course both on tour and in stock.

**GSC 354-6 (3,3) History of the Theater.**

**402-8 (4,4) Play Directing.** (a) The principles and procedures of play direction including play selection, interpretation, and the patterning of auditory and visual stimuli; (b) Continuation of 402a emphasizing rehearsal procedures, control of tempo and mood, styles of presentation and performance, and other techniques in the direction of plays.

**403-4 Aesthetics of the Drama and the Theater.** Principles and practice of modern dramatic production in the light of modern aesthetic theory. A course attempting to formulate an aesthetic judgment of the theater.

**404-4 Theater Management.** Theater operational procedure, including both fundamental structuring and house management. The former aspect includes administration, purchasing, and accounting practices, ticket sales, publicity, promotion, and public relations. The latter aspect covers the management of box-office and ushering.

**405-8 (4,4) The Scenic Imagination.** (a) A study of the purely creative side of stage production. It includes an analysis of the script and its meaning for an audience; a poetic evaluation of the setting, costumes, and lighting; and the blocking out of the stage action; (b) Theater research and documentation; an approach to sketches and models; a review of the historic forms of staging, with emphasis on the modern styles from naturalism to epic theater.

**406-1 American Professional Theater Procedures and Practices.** An introduction to the everyday realities of a professional stage career, including problems of survival, professional ethics and protocol, personal relations, and the function of stage unions.

**409-4 High School Theater and Its Production Problems.**

**410-3 Children's Theater.** Creative dramatics; dramatization of children's literature; play production for elementary schools. Recommended for education concentrations.

**411-4 Playwriting.** The writing of a full-length play, a children's play, or a historical pageant-drama forms the basis of the course. Students may elect to write two one-act plays. Individual conferences supplement the class discussion and analysis of student writing. Prerequisite for graduate students: consent of instructor.

**412-4 Stage Design.** The design of settings for the stage and other dramatic media. Prerequisite: 207.

**414-4 Costume Design.**

**415-4 Advanced Costume Design.**

**432-4 Stage Lighting.** Instruments and control equipment; principals and techniques of lighting dramatic productions.

**438-4 Contemporary Developments in the Theater.** Critical study of theory and practice in acting, directing, production, and architecture in the modern theater. The rise and development of the film, radio, and television as dramatic media.

**502-4 Advanced Directing.**

**503-4 Advanced Technical Problems.**

**504-4 The Comic Theater.**

**505-4 The Tragic Theater.**

**506-4 The American Theater.**

**509-4 The High School Theater and its Production Problems.**

**518-4 Theater Audience.**

**519-1 to 12 Theater Practicum.**

**526-3 Seminar in Theater Arts.**

**530-1 to 4 Research Problems in Theater.**

**599-1 to 9 Thesis.**

### University Convocation

**000-0 Freshman Convocation.**

### Zoology

**102-5 General Invertebrate Zoology.** Studies of representatives of the various kinds of invertebrate animals. Relationships, structure, and natural history are emphasized. Two lecture and 6 laboratory hours per week. Prerequisite: GSA 201b.

**103-5 General Vertebrate Zoology.** Studies of representatives of the various kinds of vertebrate animals. Evolutionary development, structure, and natural history are emphasized. Two lecture and 6 laboratory hours per week. Prerequisite: GSA 201.

**202-5 Comparative Anatomy of Vertebrates.** Comparative studies of the organ



systems of vertebrate animals, with emphasis on the phylogeny and evolution of these organs. Two lecture and 6 laboratory hours per week. Prerequisite: 103.

**300-5 Vertebrate Embryology.** Development of the individual with the frog, chick, and pig as types. Three lectures and four laboratory hours per week. Prerequisite: 202.

**303-4 General Ornithology.** Classification and recognition of birds and the study of their songs, nests, migratory habits, and other behavior. Cost of field trips may be \$5 to \$10 per student. Two lecture and 4 laboratory hours per week. Prerequisite: GSA 201b.

**306-4 Entomology.** Principles of the structure, classification, and life histories of insects. Two lectures and 4 laboratory hours per week. Prerequisite: 102.

**309-5 Elementary Cytology.** Introduction to structure and function of the cell on an elementary level. Three lecture and four laboratory hours per week. Prerequisite: 15 hours of biology.

**310-5 Animal Ecology.** Habitats, communities, and population dynamics of animals. Cost of field trips may be \$5-\$25 per student. Three lecture and 4 laboratory hours per week. Prerequisite: 102, 103.

**GSA 312-3 Conservation of Natural Resources.**

**GSA 313-3 Evolution.**

**GSA 314-3 Man's Genetic Heritage.**

**GSA 315-3 History of Biology.**

**316-4 Insect Pests and Their Control.** Principal injurious insects and their allies; chemical and biological methods of control. (Credit may not be used toward a concentration in zoology.) Two lecture and 4 laboratory hours per week. Prerequisite: GSA 201b.

**321-5 Histological Techniques in Zoology.** Methods of preparing material for microscopic study. Two lecture and 6 laboratory hours per week. Prerequisite: one year of biological sciences or consent of instructor.

**322-2 to 5 Problems in Zoology.** Research on zoological problems. Prerequisite: 4.25 grade point average, senior standing, and approval of the department or faculty. (Credit may not be used toward a secondary concentration in zoology.)

**382-0.5 to 1.5 (.5,.5,.5) Zoology Seminar for Seniors.** Two quarters required of seniors concentrating in zoology. Prerequisite: senior standing.

**400-2 Animal Taxonomy.** The concepts of taxonomy and their use in zoology. Prerequisite: one year of biology or consent of instructor.

**401-5 Genetics.** Principles of inheritance, including genetic mechanisms, mutation, and selection. Prerequisite: 15 hours of biological science and consent of instructor.

**402-4 Natural History of Invertebrates.** Observation, identification, and life histories. Designed for teachers. Not for students specializing in invertebrate zoology. Prerequisite: one year of zoology including 102.

**403-4 Natural History of Vertebrates.** Observation, identification, and life histories. Designed for teachers. Not for students specializing in vertebrate zoology. Prerequisite: one year of zoology including 103.

**404-2 to 8 Zoology Field Studies.** A trip of four to eight weeks to acquaint students with animals in various environments and/or with methods of field study, collection, and preservation. Arrangements made in advance of term. Cost per individual will be approximately \$25 per week. (Only 4 hours may be used for credit.) Prerequisite: consent of department.

**406-4 Protozoology.** Taxonomy, cytology, reproduction, and physiology of unicellular animals. Laboratory methods of culturing and studying. Prerequisite: one year of zoology including 102 or consent of instructor.

**407-5 Parasitology.** Principles, collection, identification, morphology, life histories, and control measures. Prerequisite: one year of zoology including 102.

**408-4 Herpetology.** Taxonomic groups, identification, morphology, and natural history of amphibians and reptiles. Prerequisite: one year of zoology, including 103.

**409-5 Histology of Organs.** Microscopic structure of organs and tissues with emphasis on mammalian forms. Prerequisite: 202.

**410-5 Vertebrate Paleontology.** History of vertebrate animals in terms of their morphological change, geological succession, and ecological relationships. Prerequisite: one year of zoology including 202 or Geology 221.

**412-4 Advanced Entomology.** Morphology, physiology, systematics, and distribution of insects. Prerequisite: one basic course in entomology.



- 413-5 The Invertebrates.** Structure, development, and natural history of invertebrates, except insects and parasites. Prerequisite: one year of zoology, including 102.
- 414-4 Freshwater Invertebrates.** Taxonomic groups, identification and natural history of the regional fauna. Prerequisite: one year of zoology, including 102.
- 441-4 Developmental Biology.** Principles of development and organization. Prerequisite: 300 and one course in cellular physiology, or consent of instructor.
- 459-4 Game Birds.** Natural history and management. Prerequisite: one year of zoology including 103.
- 461-4 Mammalogy.** Taxonomic groups, identification, and natural history of mammals. Prerequisite: one year of zoology including 103.
- 463-4 Game Management.** General survey of management techniques. Prerequisite: 15 hours of biological science, consent of instructor.
- 465-4 Ichthyology.** Taxonomic groups, identification, and natural history of fishes. Prerequisite: one year of zoology, including 103.
- 466-4 Fish Management.** Sampling, dynamics, and manipulation of fish populations, age and growth of fishes, and habitat improvement. Prerequisites: 15 hours of biological science, consent of instructor.
- 501-4 Animal Biology For High School Teachers of Biology.**
- 502-2 Recent Developments in Biological Sciences.**
- 507-8 BSCS-High School Biology.**
- 508-4 Helminthology.**
- 510-4 Bio-ecology.**
- 511-4 Limnology.**
- 512-3 Animal Geography.**
- 513-3 Advanced Ornithology.**
- 520-5 Advanced Invertebrates.**
- 521-4 Advanced Limnology.**
- 525-5 Cytology.**
- 540-3 Factors in Animal Reproduction.**
- 542-3 Osteology.**
- 560-3 Advanced Wildlife Management.**
- 561-4 Game Mammals.**
- 566-4 Fish Culture.**
- 577-3 Population Ecology.**
- 578-4 Population Genetics.**
- 579-4 Animal Behavior.**
- 580-4 Advanced Systematics.**
- 581-3 Readings in Current Zoological Literature.**
- 582-1.5 (0.5,0.5,0.5) Graduate Zoology Seminar.**
- 583-3 (1,1,1) Teaching of Zoology in College.**
- 584-3 (1,1,1) Protozoology Seminar.**
- 596-3 to 12 Special Research.**
- 599-2 to 9 Research and Thesis.**
- 600-3 to 48 Research and Dissertation.**

# 9 / Faculty

## College of Liberal Arts and Sciences

### *Anthropology*

*Professors* Philip J. C. Dark, Ph.D.; J. Charles Kelley, Ph.D.; Charles H. Lange, Ph.D. (*Chairman*); Robert L. Rands, Ph.D.; Walter W. Taylor, Ph.D.; Carroll L. Riley, Ph.D.

*Assistant Professors* Milton Altschuler, Ph.D.; D. Lee Guemple, Ph.D.; Jerome S. Handler, Ph.D.; Bruce B. MacLachlan, Ph.D.; Joel M. Maring, Ph.D.; Jon D. Muller, Ph.D.; Roy Wagner, Ph.D.

*Adjunct Professor* Adrianus A. Gerbrands, Ph.D.

### *Botany*

*Professors* William D. Gray, Ph.D.; Robert H. Mohlenbrock, Ph.D. (*Chairman*); Ladislao V. Olah, Ph.D.; Jacob Verduin, Ph.D.; John W. Voigt, Ph.D.; Walter B. Welch, Ph.D.

*Associate Professors* William C. Ashby, Ph.D.; Margaret Kaeiser, Ph.D.; Aristotel J. Pappelis, Ph.D.; Walter E. Schmid, Ph.D.

*Assistant Professors* William M. Marberry, M.S.; Lawrence Matten, Ph.D.; Donald R. Tindall, Ph.D.; Donald Ugent, Ph.D.

### *Chemistry*

*Professors* Talbert W. Abbott, Ph.D. (*Emeritus*); Roger E. Beyler, Ph.D.; George E. Brown, Ph.D.; Elbert H. Hadley, Ph.D.; Robert W. MacVicar, Ph.D.; James W. Neckers, Ph.D.; Robert A. Scott, Ph.D. (*Emeritus*); Robert E. Van Atta, Ph.D.; Kenneth A. Van Lente, Ph.D.; John H. Wotiz, Ph.D. (*Chairman*).

*Associate Professors* James N. BeMiller, Ph.D.; Albert L. Caskey, Ph.D.; Herbert I. Hadler, Ph.D.; J. Herbert Hall, Ph.D.; Cal Y. Meyers, Ph.D.; Wilbur N. Moulton, Ph.D.; Boris Musulin, Ph.D.; Charles Schmulbach, Ph.D.; Gerard V. Smith, Ph.D.; Russell F. Trimble, Ph.D.

*Assistant Professors* Paul M. Anderson, Ph.D.; Bruce Coxon, Ph.D.; H. Frank Gibband, Ph.D.; Conrad C. Hinckley, Ph.D.; David Koster, Ph.D.; Donald W. Slocum, Ph.D.; James Tyrrell, Ph.D.

### *English*

*Research Professor* Harry T. Moore, Ph.D.

*Professors* James W. Benziger, Ph.D.; E. C. Coleman, Ph.D.; Hugh Duncan, Ph.D.; William Evans, D.Ed.; Robert D. Faner, Ph.D.; Joseph H. Friend, Ph.D.; Jesse Harris, Ph.D.; Sidney Moss, Ph.D.; Henry Dan Piper, Ph.D.; William Simeone, Ph.D.; E. Earle Stibitz, Ph.D.; Charles D. Tenney, Ph.D.; David Vieth, Ph.D.; Howard Webb, Ph.D.; Georgia Winn, Ph.D.

*Associate Professors* Frances M. Barbour, M.A. (*Emerita*); Ted E. Boyle, Ph.D.; Edmund Epstein, M.A.; John Gardner, Ph.D.; Mark Hillegas, Ph.D.; Edith Krappe, Ph.D. (*Emerita*); Paul Morrill, Ph.D.; Charles Parish, Ph.D.; Robert Partlow, Ph.D.; Daniel Cook, Ph.D.

*Assistant Professors* Julia M. Barber, A.M. (*Emerita*); William J. Brown, Ph.D.; Winifred Burns, M.A.; George Camp, Ph.D.; Thomas Cassidy, M.A.; Elizabeth A. Cox, A.M. (*Emerita*); Thomas W. Davis, M.A.; Herbert Donow, Ph.D.; Aristotle Katranides, Ph.D.; George Goodin, Ph.D.; Robert Griffin, Ph.D.; Robert Harrell, Ph.D.; Thomas Hatton, Ph.D.; John Howell, Ph.D.; Paul Hurley, Ph.D.; Howard Keller, M.A.; Richard Lawson, Ph.D.; John Joseph Leonard, M.A.; Fred Lingle, M.A.; Raymond Rainbow, Ph.D.; Byron



Raizis, Ph.D.; Hans Rudnick, Ph.D.; Barry Sanders, Ph.D.; Bernice Warren, Ph.D.; Muriel West, Ph.D.  
*Instructors* Leon Bennett, M.A.; Terence Brown, M.A.; Diana Dodd, M.A.; Edward McNichols, M.A.; Betty L. Mitchell, M.A.; Edna Travis, M.S.; Roy Weshinsky, M.A.

### *Foreign Languages*

*Professors* Albert W. Bork, Doctor en Letras; J. Cary Davis, Ph.D.; Hellmut A. Hartwig, Ph.D. (*Chairman*); Vera L. Peacock, Ph.D.  
*Associate Professors* Howard French, Ph.D.; David L. Gobert, Ph.D.; James A. Kilker, Ph.D.; Joseph R. Kupcek, Ph.D.; Helmut Liedloff, Ph.D.; Madeleine M. Smith, Ph.D.; Hensley Woodbridge, Ph.D.  
*Assistant Professors* Vincent Cosentino, Ph.D.; Anna K. Neufeld, M.A.  
*Lecturer* Arnold Ulner, M.A.

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*Visiting Professor* D. Lincoln Canfield, Ph.D.

### *Geography*

*Professors* Douglas B. Carter, Ph.D.; David E. Christensen, Ph.D.; Floyd F. Cunningham, Ph.D. (*Emeritus*); T. J. Denis Fair, Ph.D.; Campbell W. Pennington, Ph.D.  
*Associate Professors* David L. Jones, Ph.D.; Annemarie E. Krause, Ph.D.; Theodore H. Schudde, Ph.D.; Marjorie Shank, M.A. (*Emerita*); Frank H. Thomas, Ph.D. (*Chairman*).  
*Assistant Professors* Daniel R. Irwin, M.A.; Frank Kirk, M.A.; John Rooney, Ph.D.

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*Visiting Professor* Jean Gottmann, Lic. es Litt.

### *Geology*

*Professors* Stanley E. Harris, Jr., Ph.D.  
*Associate Professors* Jen Ho Fang, Ph.D.; Daniel N. Miller, Ph.D. (*Chairman*)  
*Assistant Professors* Frank James Bell, M.S.; George D. Fraunfelder, Ph.D.; John D. Utgaard, Ph.D.  
*Instructor* Don L. Sawatzky, B.S.

### *Government*

*Professors* Abdul Abbass, Ph.D.; Orville Alexander, Ph.D. (*Chairman*); Ikua Chou, Ph.D.; Fred Giuld, Ph.D.; Jack Isakoff, Ph.D.; Ward Morton, Ph.D.; Frank Klingberg, Ph.D.; Robert McGrath, Ph.D.; Ward Morton, Ph.D.; Randall Nelson, Ph.D.; John Rendleman, J.D.; Max Turner, Ph.D.  
*Associate Professors* William Garner, Ph.D.; Charles Goodsell, Ph.D.; Earl Hanson, Ph.D.; William Hardenbergh, Ph.D.; Melvin Kahn, Ph.D.; David Kenney, Ph.D.; Marian Ridgeway, Ph.D.; Max Sappenfield, Ph.D.  
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## *Index*





# Index

## A

Academic load, 7  
 Accounting: description, 37; course descriptions, 118-119; faculty, 222; mentioned, 23, 35  
 Acoustically handicapped, education of, 87  
 Administration and Supervision: faculty, 220  
 Admission requirements, 3-5  
 Adult education, 32  
 Advanced degrees: information, 101  
 Advanced placement program: description, 12  
 Advanced standing, 15  
 Advisement, academic, 5  
 Aerospace studies: description, 25-29; course descriptions, 119  
 African studies, 37  
 Agricultural business, 23  
 Agricultural economics, 23  
 Agricultural education: description and requirements, 37; mentioned, 23, 35, 83  
 Agricultural industries: description and requirements, 38; course descriptions, 119-121; faculty, 222; mentioned, 22, 23, 35  
 Agricultural mechanization, 23  
 Agriculture, School of: description, 22; faculty, 222  
 Agriculture, general: description and requirements, 38; mentioned, 23, 35  
 Agriculture, precollege preparation, 23  
 Air Force ROTC: Awards, 28; faculty, 225; mentioned, 25  
 Animal industries: requirements, 39-40; course descriptions, 121-123; faculty, 222; mentioned, 22, 23, 35  
 Anthropology: requirements, 40; course descriptions, 123-124; faculty, 217; mentioned, 19, 20, 35  
 Apparel design: requirements, 62; mentioned, 61  
 Applied science: requirements, 40-41; course descriptions, 124-125; mentioned, 25, 35

Area A—Man's Physical Environment and Biological Inheritance: requirements, 13-14  
 Area B—Man's Social Inheritance and Social Responsibilities: requirements, 14  
 Area C—Man's Insights and Appreciations: requirements, 14  
 Area D—Organization and Communication of Ideas: requirements, 14  
 Area E—Health and Physical Development: requirements, 15  
 Areas of concentration, College of Liberal Arts and Sciences, 20-21  
 Art: requirements, 41-42; course descriptions, 125-128; faculty, 224; mentioned, 20, 24, 35  
 Art education: requirements, 42-43; mentioned, 83  
 Art history: requirements, 43  
 Asian studies: description, 43; mentioned, 20  
 Associate degree: description, 99  
 Associate in Art degree, 99  
 Associate in Business degree, 99  
 Associate in Technology degree, 99

## B

Bachelor of Arts degree, 99  
 Bachelor of Music degree, 99  
 Bachelor of Music Education degree, 22, 99  
 Bachelor of Science degree, 22, 99  
 Bachelor's degree, 99-100  
 Biological sciences: description and requirements, 43-44, mentioned, 20, 35, 83  
 Botany: requirements, 45; course descriptions, 128-130; faculty, 217; mentioned, 19, 20, 35, 84  
 Business education: requirements, 45-46; mentioned, 35, 84  
 Business, School of: description, 23; faculty, 222-223  
 Bursar, function, 107-108

## C

Carbondale Campus: description, 1-2  
 Certificates of registration: description and use, 108

Chemistry: description and requirements, 46–47; course descriptions, 130–132; faculty, 217; mentioned, 19, 20, 35, 84  
 Chinese: course descriptions, 150–151  
 Class standing, 8  
 Clothing and textiles: description and requirements, 61; course descriptions, 132–134; faculty, 225; mentioned, 24, 61  
 College entrance examination, for advanced standing, 15  
 Communications, School of: description, 24; faculty, 223–224  
 Community development: description, 47; mentioned, 35  
 Community Development Institute, 33  
 Cooperative clinical services, 107  
 Correspondence courses: requirements for taking, 11  
 Counseling and testing, 103  
 Credit: transfer, 4; description of unit, 8

## D

Dean of the students, office of the: description, 103  
 Degrees: listing and description, 99–101  
 Dentistry, 21  
 Design: requirements, 48; course descriptions, 134; faculty, 224; mentioned, 24, 35  
 Dietetics: requirements, 63; mentioned, 61

## E

Early-childhood education: requirements, 50; professional quarter, 91  
 East-European studies, 20  
 Economics: description and requirements, 48–49; course descriptions, 134–136; faculty, 223; mentioned, 20, 23, 35, 84  
 Educable mentally retarded, 86  
 Educational administration and supervision: course descriptions, 136–137; mentioned, 21  
 Educational psychology: course descriptions, 163–164; faculty, 221; mentioned, 21  
 Education, College of: description, 21; faculty, 220–222  
 Elementary education: description and requirements, 49–50; special education requirements, 87; professional quarter, 91; course de-

scriptions, 137–139; faculty, 220; mentioned, 21, 35  
 English: description and requirements, 53–54; course descriptions, 146–148; faculty, 217–218; mentioned, 20, 21, 35, 84  
 English language arts, 83  
 Engineering: description, 50–51; course descriptions, 139–143; mentioned, 25, 35  
 Engineering technology: description and requirements, 52–53; course descriptions, 143–146; mentioned, 25, 35  
 Examinations, proficiency, 12  
 Executive secretaries, 23  
 Extension courses: requirements for taking, 11  
 Extension, home economics: requirements, 66; mentioned, 61  
 Extracurricular activities, 26

## F

Faculty list, 217–225  
 Fees, 6–7  
 Fields of study, 35  
 Finance: description and requirements, 54–55; course descriptions, 148–149; faculty, 223; mentioned, 23, 35  
 Financial institutions: requirements, 55  
 Financial management: requirements, 55  
 Fine Arts, School of: description, 24; faculty, 224–225  
 Food and nutrition: course descriptions, 149–150; faculty, 225; mentioned, 24, 61  
 Food and nutrition science: requirements, 64; mentioned, 61  
 Foods in business: requirements, 63; mentioned, 61  
 Foreign languages: requirements, 55, 150; course descriptions, 150–155; faculty, 218; mentioned, 19, 21, 35, 83  
 Forest Recreation and Park Management, 23  
 Forest Resource Management, 23  
 Forestry: description and requirements, 56; course descriptions, 155–157; faculty, 222; mentioned, 22, 23, 35  
 French: course descriptions, 151  
 Freshman convocation, 157  
 Freshman honors seminar, 157

## G

General finance: requirements, 55



General home economics: requirements, 64; mentioned, 64  
 General Science, 35  
 General Studies, Area "A": course descriptions, 112-113  
 General Studies, Area "B": course descriptions, 113-114  
 General Studies, Area "C": course descriptions, 114-116  
 General Studies, Area "D": course descriptions, 117  
 General Studies, Area "E": course descriptions, 117-118  
 General Studies Division, 19  
 General Studies: requirements, 13; requirements for business students, 23  
 Geography: description and requirements, 57-58; course descriptions, 157-159; faculty, 218; mentioned, 19, 20, 35, 83  
 Geology: requirements, 58-59; course descriptions, 159-160; faculty, 218; mentioned, 19, 20, 35  
 German: course descriptions, 151-153  
 Government: description and requirements, 59; course descriptions, 160-163; faculty, 218; mentioned, 19, 20, 35, 83  
 Grades, deferred, 8  
 Grading system: description, 8  
 Graduation requirements, 99  
 Greek: course descriptions, 153  
 Guidance: course descriptions, 163-164; faculty, 220; mentioned, 21

## H

Health and physical development, 19  
 Health and physical education, 35  
 Health education: description, 59-60; course descriptions, 164-166; faculty, 221; mentioned, 21, 35, 84  
 Health science: description, 60; mentioned, 20, 35  
 Health Service, 106-107  
 Higher education: course descriptions, 166; faculty, 221; mentioned, 21  
 History: description, 61; course descriptions, 166-168; faculty, 218; mentioned, 19, 20, 35, 84  
 Home and family: course descriptions, 168-169; faculty, 225; mentioned, 24, 61  
 Home economics: description, 61-67; course descriptions, 169;

mentioned, 20, 35, 84  
 Home Economics, School of: description, 24; faculty, 225  
 Home economics education: course descriptions, 169-170; faculty, 225; mentioned, 24, 61  
 Honors day, 10  
 Honors work, 11

## I

Identification cards, description and use of, 108  
 Incomplete grades, 8  
 Industrial arts teaching requirements, 95  
 Industrial sciences, 35  
 Industrial technology: description and requirements, 67-68; course descriptions, 170-172; mentioned, 25, 35  
 Institution management: requirements, 64-65; mentioned, 61  
 Instructional materials: description, 68; course descriptions, 173-174; faculty, 221; mentioned, 21  
 Instructional units, 19-33  
 Italian: course descriptions, 153  
 Inter-American studies, description and requirements, 68-69; mentioned, 21, 35  
 Interior design: requirements, 65; mentioned, 61  
 International Student Services, office of, 107  
 Interpretation: requirements, 87-88

## J

Journalism: description and requirements, 69-70; course descriptions, 174-176; faculty, 223; mentioned, 35, 84

## L

Labor Institute, 33  
 Language arts, 35  
 Latin: course descriptions, 153  
 Latin American Institute, 33  
 Law, 21  
 Liberal Arts and Sciences, College of: description, 19; requirements, 20; faculty, 217-220  
 Libraries, 2

## M

Maladjusted children, education of, 87  
 Management: requirements, 70-71; courses, 176-177; faculty, 223; mentioned, 23, 35

Man's insights and appreciations, 19  
 Man's physical environment and biological inheritance, 19  
 Man's social inheritance and social responsibilities, 19  
 Manual arts therapy, 95  
 Marketing: requirements, 71; courses, 177-178; faculty, 223; mentioned, 23, 35  
 Mass Communications Media, 24  
 Mathematics: requirements, 71-72; course descriptions, 178-181; faculty, 219; mentioned, 19, 21, 35, 84  
 Medical illustration, 21  
 Medical technology, 21  
 Medicine, 21  
 Merchandising, 65-66  
 Microbiology: description and requirements, 72; course descriptions, 181-182; faculty, 219; mentioned, 19, 21, 35  
 Military experience, credit for, 10  
 Music: description and requirements, 74; course descriptions, 182-184; faculty, 224, 225; \* mentioned, 21, 24, 35  
 Music education: requirements, 74-75; mentioned, 84

## N

Nursing: description, 75

## O

Occupational therapy, 21  
 Off-campus housing, 105  
 Organization and communication of ideas (GSD), 19  
 Out-of-state students: tuition, 6

## P

Pharmacy, 21  
 Philosophy: requirements, 75; course descriptions, 184-185; faculty, 219; mentioned, 19, 20, 35  
 Photocopying service, 2  
 Photography: requirements, 75; mentioned, 35  
 Photography, printing and: course descriptions, 194-196; faculty, 223  
 Physical education, 83  
 Physical education for men: requirements, 76; course descriptions, 185-188; faculty, 221; mentioned, 21, 35  
 Physical education for women: requirements, 77; course descrip-

tions, 188-190; faculty, 221; mentioned, 21, 35  
 Physical education: requirement for women, 15  
 Physical examination prior to registration, 5, 106-107  
 Physical science, 83  
 Physical therapy, 21  
 Physics: requirements, 77; course descriptions, 190-191; faculty, 219; mentioned, 19-20, 35, 83  
 Physiology: requirements, 78; course descriptions, 192; faculty, 219; mentioned, 19-20, 35  
 Placement Services, 107  
 Plan "A": description, 11; course descriptions, 193  
 Plant industries: description and requirements, 78-79; course descriptions, 193-194; faculty, 222; mentioned, 22, 23, 35  
 Portuguese: course descriptions, 153  
 Pre-engineering: description and requirements, 51-52  
 Preprofessional programs, 100-101  
 Printing and photography: course descriptions, 194-196; faculty, 223  
 Printing management: requirements, 79; mentioned, 35  
 Probation, scholastic, 9-10  
 Production Animal Industries, 23  
 Professional business core, 23  
 Professional Officer Course, 25  
 Professional quarter committee, 92-93  
 Proficiency examinations, 15-16  
 Psychology: description and requirements, 79; course descriptions, 196-198; faculty, 219, 220; mentioned, 19, 21, 35  
 Public health, 21

## R

Radio-television: requirements, 80; course descriptions, 198-200; faculty, 224; mentioned, 35  
 Recreation and outdoor education: description and requirements, 80-82; course descriptions, 200-201; faculty, 221; mentioned, 21, 35  
 Registration, 5  
 Religious studies: description, 82; course descriptions, 201; mentioned, 21  
 Residence regulations, 108  
 Romance philology: course descriptions, 155



ROTC, 25–29  
 Russian: course descriptions, 153–154  
 Russian and East European studies: description, 82  
 Russian studies, 21

## S

Scholastic standards, 9  
 Scholastic warning, 9  
 Science, 23  
 Secondary education: description, 83–84; course descriptions, 201–202; faculty, 222; mentioned, 21  
 Secondary professional quarter, 91  
 Secretarial and business education: course descriptions, 202–203; faculty, 223; mentioned, 23  
 Secretarial studies: requirements, 85; mentioned, 35  
 Small Business Institute, 33  
 Small business management, 35  
 Social studies, 35, 85  
 Social work, 85  
 Sociology: course descriptions, 203–206; requirements, 85; faculty, 220; mentioned, 19, 21, 35  
 Spanish: course descriptions, 154  
 Spanish, American: course descriptions, 155  
 Spanish, Iberian: course description, 155  
 Special education: description and requirements, 86–87; course descriptions, 206–208; faculty, 222; mentioned, 21  
 Special Education: mentally retarded, 35; physically handicapped, 35  
 Special programs for credit, 11  
 Speech pathology and audiology: description and requirements, 89–90; course descriptions, 210–211; faculty, 224; mentioned, 35  
 Speech: requirements, 87–89; course descriptions, 208–210; faculty, 224; mentioned, 21, 35, 83  
 Standard high school certificate, 83–84  
 Standard special certificate, 84  
 Student activities, 105  
 Student and area services, 103  
 Student financial assistance, 106  
 Student Guidebook, 105–106  
 Student housing, 104  
 Student teaching, 21, 90–94  
 Student work, 106  
 Studio art, 42

Studio crafts, 42  
 Substitution for General Studies courses, 16  
 Suspension, scholastic, 10

## T

Teaching certificates: description, 22; requirements, 44, 45  
 Teaching vocational homemaking: description and requirements, 66; mentioned, 61  
 Technical and Adult Education, Division of: description, 32  
 Technical and industrial education: description and requirements, 94–95; course descriptions, 211–212; mentioned, 25, 35, 84  
 Technical teaching requirements, 95  
 Technology: course descriptions, 212–213  
 Technology, School of: description, 25; faculty, 225  
 Theater: description and requirements, 95–96; course descriptions, 213–214; faculty, 224; mentioned, 21, 35, 84  
 Theology, 21  
 Trades and industries: teaching requirements, 95  
 Transfer student re. general studies: requirements, 16–17  
 Transportation Institute, 33  
 Tuition, 6

## U

University convocation, 100  
 University Extension Services: description, 29  
 University, history, 1  
 University housing, 104–105

## V

Veterinary science, 21  
 Vocational agriculture, professional quarter, 91–92  
 Vocational home economics, professional quarter, 92  
 Vocational-Technical Institute, 32

## W

Waiver of courses, GSC third level, 16  
 Withdrawal from course, 8–9

## Z

Zoology: requirements, 96–97; course descriptions, 214–216; faculty, 220; mentioned, 19, 21, 35, 83







### *SOUTHERN ILLINOIS UNIVERSITY FOUNDATION*

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*One Dollar*

Southern Illinois University  
*Bulletin*

*1967/1969 Undergraduate Catalog*  
*Edwardsville Campus*



## OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

### TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

### TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

### TO FORWARD IDEAS AND IDEALS

*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

### TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*

# Southern Illinois University *Bulletin*

*1967/1969 Undergraduate Catalog  
Edwardsville Campus*



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# Contents

University Calendar .....	v
Board of Trustees and Officers of Instruction .....	vi
<b>1 THE UNIVERSITY .....</b>	<b>1</b>
Edwardsville Campus ... 1; The University Libraries ... 2.	
<b>2 ADMISSION, ADVISEMENT, AND REGISTRATION .....</b>	<b>3</b>
Admission ... 3; Admission of Freshmen ... 3; Admission of Transfer Students ... 4; Admission of Foreign Students ... 4; Admission of Former Students ... 4; Advisement ... 4; Physical Examination ... 5; Registration ... 5; Tuition and Other Fees ... 5; Payment and Refunding of Fees ... 6; Academic Load ... 7; Unit of Credit ... 7; Class Standing ... 7; Grading System ... 8; Scholastic Standards ... 9; Scholastic Warning ... 9; Scholastic Probation and Suspension ... 9; Honors Day ... 9; Special Programs for Credit ... 10; Credit for Military Experience ... 10; Extension and Correspondence ... 10; Honors Program ... 10.	
<b>3 GENERAL STUDIES .....</b>	<b>11</b>
Transfer Students ... 11; General Studies Requirements ... 12; Outline of Requirements ... 12; Summary of Area Requirements ... 13; Program Flexibility ... 15; Advanced Standing ... 15; Proficiency Examination ... 15; Substitution ... 15; Third-Level Waiver ... 15; College Entrance Examination Board ... 16; Specific Requirements ... 16; Changes in Requirements ... 17.	
<b>4 INSTRUCTIONAL UNITS .....</b>	<b>19</b>
General Studies Division ... 19; Business Division ... 19; Education Division ... 20; Fine Arts Division ... 21; Humanities Division ... 21; Science and Technology Division ... 22; Social Sciences Division ... 22; Department of Nursing ... 23; Aerospace Studies ... 24; University Extension Services ... 26; Division of Technical and Adult Education ... 29; Center for the Study of Crime, Delinquency, and Corrections ... 30; Labor Institute ... 30; Small Business Institute ... 31.	
<b>5 AREAS OF CONCENTRATION .....</b>	<b>33</b>
American Studies ... 34; Anthropology ... 34; Applied Science ... 35; Art ... 35; Biology ... 36; Business Administration ... 37; Business Education ... 42; Chemistry ... 44; Comparative Literature ... 44; Economics ... 44; Elementary Education ... 46; Engineering (preprofessional) ... 47; English ... 47; Foreign Languages ... 48; Geography ... 48; Government ... 50; Health, Recreation, and Physical Education ... 50; History ... 51;	

Instructional Materials . . . 52; Journalism . . . 52; Mathematics . . . 52; Music . . . 53; Nursing . . . 54; Philosophy . . . 55; Physics . . . 55; Professional Writing . . . 56; Psychology . . . 56; Public Administration and Planning . . . 57; Secondary Education . . . 58; Sociology . . . 59; Special Education . . . 60; Speech . . . 61; Speech Pathology and Audiology . . . 62; Student Teaching . . . 62; Theater . . . 64.	
6 DEGREES . . . . .	65
Graduation . . . 65; Associate Degrees . . . 65; Bachelor's Degrees . . . 65; Preprofessional Programs . . . 66; Advanced Degrees . . . 67.	
7 STUDENT AND AREA SERVICES . . . . .	69
Student Services . . . 69; Office of the Dean of Students . . . 69; Counseling and Testing . . . 69; Student Housing . . . 70; Basic Student Housing Policy . . . 70; University Housing, Carbondale Campus . . . 70; University Housing, Edwardsville Campus . . . 71; Off-Campus Housing . . . 71; Student Activities . . . 71; Student Guidebook . . . 72; Office of Student Work and Financial Assistance . . . 72; Health Services . . . 72; Placement Services . . . 73; International Student Services . . . 73; Cooperative Clinical Services . . . 73; Bursar . . . 74; Identification Cards and Certificates of Registration . . . 74; Residence Regulations . . . 74.	
8 COURSE DESCRIPTIONS . . . . .	77
Man's Physical Environment and Biological Inheritance (GSA) . . . 78; Man's Social Inheritance and Social Responsibilities (GSB) . . . 79; Man's Insights and Appreciations (GSC) . . . 80; Organization and Communication of Ideas (GSD) . . . 81; Health and Physical Development (GSE) . . . 82; Accounting . . . 82; Aerospace Studies . . . 83; American Studies . . . 83; Anthropology . . . 83; Applied Science . . . 84; Art . . . 84; Biology . . . 85; Business Communications . . . 87; Business Education . . . 87; Chemistry . . . 89; Comparative Literature . . . 90; Counselor Education . . . 91; Economics . . . 91; Educational Administration . . . 92; Elementary Education . . . 93; Engineering . . . 94; English . . . 95; Finance . . . 97; Foreign Languages . . . 98; General Business Administration . . . 101; Geography . . . 101; Government . . . 103; Health Education . . . 105; History . . . 105; Humanities . . . 107; Instructional Materials . . . 107; Journalism . . . 108; Management Operating Systems . . . 108; Marketing . . . 109; Mathematics . . . 109; Music . . . 112; Nursing . . . 114; Personnel and Industrial Relations . . . 115; Philosophy . . . 115; Physical Education . . . 116; Physics . . . 117; Production . . . 118; Psychology . . . 119; Quantitative Methods . . . 121; Radio-Television . . . 121; Rehabilitation . . . 122; Science and Technology . . . 122; Secondary Education . . . 122; Social Welfare . . . 122; Sociology . . . 123; Special Education . . . 125; Speech . . . 126; Speech Pathology and Audiology . . . 127; Theater . . . 127.	
9 FACULTY . . . . .	129
INDEX . . . . .	135



# University Calendar

<i>FALL, 1967</i>	New Student Week	Sunday–Tuesday, Sept. 17–19
	Quarter Begins	Wednesday, September 20
	Thanksgiving Vacation	Tuesday 10 P.M.– Monday 8 A.M., November 21–27
	Final Examinations	Monday–Saturday, December 11–16
<i>WINTER, 1968</i>	Quarter Begins	Tuesday, January 2
	Final Examinations	Monday–Saturday, March 11–16
<i>SPRING, 1968</i>	Quarter Begins	Monday, March 25
	Memorial Day Holiday	Thursday, May 30
	Final Examinations	Monday–Saturday, June 3–8
	Commencement (Carbondale)	Friday, June 7
	Commencement (Edwardsville)	Saturday, June 8
<i>SUMMER, 1968</i>	Quarter Begins	Monday, June 17 *
	Independence Day Holiday	Thursday, July 4
	Final Examinations	Monday–Friday, August 26–30
	Commencement (Carbondale)	Friday, August 30
	Commencement (Edwardsville)	Saturday, August 31
<i>FALL, 1968</i>	New Student Week	Saturday–Monday, September 21–23
	Quarter Begins	Tuesday, September 24 *
	Thanksgiving Vacation	Tuesday 10 P.M.– Monday 8 A.M., November 26–December 2
	Final Examinations	Wednesday–Tuesday, December 11–17
<i>WINTER, 1969</i>	Quarter Begins	Thursday, January 2 *
	Final Examinations	Thursday–Wednesday, March 13–19
<i>SPRING, 1969</i>	Quarter Begins	Wednesday, March 26 *
	Memorial Day Holiday	Friday, May 30
	Final Examinations	Wednesday–Tuesday, June 4–10
	Commencement (Edwardsville)	Tuesday, June 10
	Commencement (Carbondale)	Wednesday, June 11

\* Classes begin with the evening classes after 5:30 P.M. on the Carbondale campus and with the evening classes after 4:30 P.M. on the Edwardsville campus.

# Board of Trustees and Officers of Instruction

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# 1 / The University

SOUTHERN ILLINOIS UNIVERSITY is a multi-purpose and diversified university that, since its establishment in 1869, has sought to meet the educational needs of the times for the people which it serves as a public institution. It is fully accredited by the North Central Association of Colleges and Secondary Schools.

Though the student population has increased manifold from its beginning, the formation of schools, colleges, divisions, and departments within the University enables the institution to concentrate on the special interests of its individual students. The University in total size now ranks twentieth in the nation. It offers facilities and faculty to give general and professional training to students ranging from two-year programs leading to associate degrees to the doctoral degree level.

Because of the growing demand for educational opportunities in the Madison-St. Clair counties area, the University established the Alton Residence Center and the East St. Louis Residence Center in 1957, the former on the campus of what used to be Shurtleff College, the latter in a senior high school building.

During the year 1958-59, communities in Madison and St. Clair counties launched a drive that helped acquire a large central campus site on the outskirts of Edwardsville, Illinois, approximately twenty miles east of St. Louis, Missouri. From what was once farm land has now risen a complex of uniquely designed buildings which constitute the Edwardsville campus.

Thus, though Southern Illinois University is a single university, it has several campuses with the major designations being the Carbondale Campus, with its Vocational-Technical Institute and Little Grassy Lake installation, and the Edwardsville Campus, the latter including the East St. Louis Center, the Alton Center, and the campus at Edwardsville.

## Edwardsville Campus

The general administrative offices for the Edwardsville Campus are located on the central campus, which is comprised of 2,600 acres of rolling farm land and wooded valleys along the bluffs flanking the Mississippi River southwest of Edwardsville, Illinois.

The master plan for the Edwardsville site provides facilities for a daily commuting student body of 18,000.

Buildings now occupied in the first phase are Lovejoy Library, Peck Classroom Building, Communications Building, Science Laboratory Building, and the University Center. In the planning or construction stages are buildings for administration, physical education, theater and fine arts, as well as an office wing on the Science Laboratory Building.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton Center. Eight permanent build-



ings form the nucleus of this 40-acre campus. Nine additional buildings have been prepared on a temporary basis to meet current needs.

The East St. Louis Center is located on Ohio Street at Ninth and Tenth. Laboratories, classrooms, libraries, and other facilities of a former senior high school have been redesigned and equipped for university-level operation. In addition to the regular University offerings, the United States Office of Economic Opportunity is co-sponsoring with the University an experimental college project at this center.

### **The University Libraries**

The Edwardsville Campus libraries contain 280,000 volumes, 3,500 current periodicals, 45,000 maps, and 6,000 phonograph records.

Recognizing the importance of good libraries in a college education, the University has given attention to both quantity and quality of library development. During the past two years the collections have grown at the rate of more than 50,000 volumes a year. About ninety percent of the collections are housed at the Lovejoy Library at Edwardsville.

Lovejoy Library has four subject libraries—Education, Humanities and Fine Arts, Science, and Social Sciences and Business—and a General Reference Service.

Smaller collections at the Alton and East St. Louis libraries support the General Studies curriculum and special programs.

## 2 / Admission, Advisement, and Registration

IN ORDER TO attend classes at Southern Illinois University, one must gain official admission to the University and must complete the registration process, which includes specialized testing, advisement, sectioning, and payment of fees.

### Admission

Applications for admission to the University are accepted any time during the calendar year but should be initiated in ample time to permit the necessary work of processing to be completed.

#### *Admission of Freshmen*

To be eligible for admission, a person must be either a graduate of a recognized high school (graduates of non-recognized high schools may be admitted by the Director of Admissions by examination) or must have passed the General Educational Development Test. A person seeking admission through the latter procedure will be considered only after his high school class would have graduated.

In-state high school graduates who rank in the upper half of their graduating class will be permitted to enter any quarter, while those who rank in the lower half of their graduating class will be permitted to enter, on academic probation, for the summer, winter, or spring quarter only. Exceptions to this rule may be made for lower half students who desire to enter in the fall who show high scores on the University entrance examinations. Such admissions will be on an academic probation basis.

Out-of-state high school graduates who rank in the upper forty percent of their graduating class will be permitted to enter any quarter, while those in the lower sixty percent of their graduating class will be permitted to enter, on academic probation, during the summer quarter only provided that they show high scores on the University entrance examinations.

Both in-state and out-of-state lower-ranking students who elect to enter during the summer quarter can qualify for fall quarter attendance by carrying a minimum academic load of 8 hours and completing them with at least a C average.

Students will be considered for admission after completion of the sixth semester of high school. All prospective freshmen must submit high school records and furnish University entrance examination scores prior to being admitted to the University.

All admissions granted students while in high school are subject to the completion of high school work and maintenance of rank upon which the admission was made.

A student entering the University as a freshman seeking a bachelor's degree is enrolled in the General Studies Division.



### *Admission of Transfer Students*

Students applying as undergraduate transfer students with a 3.00 grade-point average are eligible for unconditional admission in any quarter. Students who do not have a 3.00 grade-point average and who are in good academic standing at the school of last attendance will be considered for admission for summer, winter, or spring. Students who do not have a 3.00 grade-point average and who are not in good academic standing at the school of last attendance will be considered for admission for summer or spring provided there has been an interruption of schooling of at least one quarter's duration and there is tangible evidence to indicate that additional education can be successfully undertaken by the student.

Transfer students suspended for any reason other than academic failure must be cleared by the Student Affairs Division before admission will be granted by the Director of Admissions.

Transfer students with fewer than 64 quarter hours will be enrolled in the General Studies Division as will those transfer students with more than 64 hours whose educational goals are not yet determined.

### *Admission of Foreign Students*

Each foreign student must submit, in addition to the regular admission papers, a questionnaire for foreign students showing all previous schooling. The foreign student must also submit an official statement showing sufficient proficiency in English to do successful college work. Such a student should make adequate provision for his financial needs; the University does not assume responsibility for a student who arrives with inadequate financial resources.

### *Admission of Former Students*

A former student of Southern Illinois University not in attendance on a campus at the close of the quarter preceding application for admission must apply to the Admissions Office for re-entrance prior to registration.

A former student who is not in good standing must clear his status before the Admissions Office will prepare his registration permit. It is advisable for such a student to initiate re-entrance clearance early so that all inquiries may be answered and so that the applicant can find time to complete any requirements that may be imposed upon him.

### **Advisement**

After a student has been admitted to Southern Illinois University, he should talk with an adviser about his educational plans and complete his registration for the quarter he expects to enter the University.

To insure that an undergraduate student is properly advised concerning the choice of a course which will fulfill the requirements of the University and prepare him for his chosen career, academic advisement has been made the special responsibility of a group selected from the teaching faculty. During his first two years the student will receive prime advice from an adviser responsible to the dean of General Studies. If he chooses to declare a special field of interest then, his General Studies adviser will refer him to someone representing his special field of interest for secondary advice; but formal admission to a specific field will be de-



ferred until the student completes 64 hours of General Studies credit. All students in General Studies must initiate transfer into their chosen unit before enrolling again, after completion of 96 hours of credit.

The student is expected in his second year to take the Sophomore Testing Program, and in the quarter he expects to graduate to take the Graduate Record Examination. Students will be notified of the times and places of the examinations.

After admission to some special field, he will receive prime advice from a representative of that field.

Physical Examination

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.

Registration

At Southern Illinois University, a system of advance registration is in operation. The period of time from the third through the tenth week of each quarter is used for advisement and registration for the following quarter. For example, a student who plans to attend during the winter quarter may register between the third and tenth week, inclusive, of the fall quarter. A new student may also register on the opening day of each quarter. All students are urged to take advantage of the advance registration period.

Registration for any session of the University is contingent upon being eligible for registration. Thus, a registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the dean of the Student Affairs Division.

Detailed information about the dates and procedures for advisement and registration appears in the Schedule of Classes, available from Central Publications.

Tuition and Other Fees

The fees charged students are established by the Board of Trustees and are subject to change whenever conditions make changes necessary. On June 29, 1967, the Board changed the fees for students taking fewer than 11 hours. The new fee schedule becomes effective with the winter quarter, 1968, (fees assessed during the fall quarter, 1967). In the table below, the shaded column becomes void, and the first two columns become effective. The third column remains in effect for students taking at least 11 hours.

	Not more than 5 hrs.	More than 5, less than 11	More than 11 or more	More than 8 hrs. or less
Tuition Fee—Illinois Resident .	\$14.00	\$28.00	\$42.00	\$21.00
Tuition Fee—Out of State . . . .	(30.00)	(115.00)	(172.00)	(86.00)
Student Welfare and Recreation				
Building Trust Fund Fee . . . .	5.00	10.00	15.00	0.00

Book Rental Fee .....	3.00	6.00	8.00	4.00
Student Activity Fee .....	3.50	7.00	10.50	10.50*
University Center Fee .....	5.00	5.00	5.00	5.00
<i>Total—Illinois Resident</i> .....	\$30.50	\$56.00	\$80.50	\$40.50
<i>Total—Out of State Resident</i> ..	(46.50)	(143.00)	(210.50)	(95.00)

\* Optional for students taking 8 hours or less until winter, 1968.

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. A late registration fee, which is \$2.00 for the first day and which increases \$1.00 each day to a maximum of \$5.00 when a student registers after the regular registration period has ended.

2. A \$2.00 program change charge whenever a student changes his program from the one for which he originally registered, unless the change is made for the convenience of the University.

3. A graduation fee of \$17.00.

Students holding valid state scholarships are exempt from the above fees to the extent provided by the terms of the specific scholarship held. An Illinois State Teacher Education Scholarship, an Illinois Military Scholarship, or an Illinois General Assembly Scholarship exempts the student from the paying of tuition, the student activity fee, and the graduation fee.

The student activity fee includes the fees for limited hospitalization, entertainment, athletics, student publications, and such other privileges as may be provided.

Faculty members and university civil service employees taking courses are not charged tuition and activity fees. However, they pay all other appropriate fees.

Extension course fees are \$6.00 per hour plus a \$1.05 book rental fee per course.

Adult education course fees are computed on the basis of approximately sixty cents per contact hour.

Other charges which a student may incur are those for departmental field trips, library fines, and excess breakage. Also, a student taking a course involving use of materials, as distinct from equipment, will ordinarily pay for such materials.

A student registering for work on an audit basis is assessed fees on the same basis as when registering on a credit basis.

A student is entitled to a free transcript of his university record each time he has added academically to his record through work taken at this University, provided he has fulfilled all his financial obligations to the University. There is a charge of \$1.00 for each additional transcript.

#### PAYMENT AND REFUNDING OF FEES

Fees are payable quarterly during the academic year. A student who registers in advance receives a fee statement by mail and may pay either by mail or in person at the Bursar's Office in accordance with instructions accompanying the fee statement. A student who does not register in advance must pay fees at the time of registration.

Refunding of fees is possible only if a student has withdrawn from school, officially, within the first ten days of a quarter and only if the application for a refund is received in the Registrar's Office within ten



school days following the last regular registration day. (See Registration Calendar in the Schedule of Classes for specific dates.) This means that for quarters starting on a Monday the withdrawal from school must have been officially made within the first two calendar weeks of the quarter and the refund application received by Monday of the third week. No refunding of fees is made for a withdrawal occurring after the first two weeks.

A student who originally pays full fees and then finds that he must reduce his program to 8 or fewer hours may receive a refund of one-half the tuition and book rental fee, provided the reduction is officially made during the first ten days of the quarter. Refund payment will be delayed in such case until after the fourth week of the quarter.

### *Academic Load*

The normal academic load for a student is 16 hours. The maximum is 18 hours.

A student with a 4.25 grade point average or above for the preceding quarter may be allowed by the head of his academic unit to take as many as 21 hours. In no case may a student carry, or be credited with, more than 21 hours in any quarter.

A student on scholastic probation may not take more than 14 hours without approval of the head of his academic unit. A student employed full-time may not register for more than 8 hours.

Ordinarily, a student must carry 12 or more hours per quarter to be considered a full-time student. However, a number of programs may carry different requirements and a student attending the University under a scholarship, loan, or other type of program requiring full time enrollment, should check to make certain that he is meeting the requirements of his specific program. For example, Public Law 358 (the new GI Bill) requires 14 hours on the undergraduate level for full-time, 10 to 13 is considered three-quarter load, and 7 to 9 hours, half load. A student concerned with Selective Service on the undergraduate level needs to carry 12 hours to be considered full-time. However, for Selective Service purposes, a student must also be making satisfactory progress. Therefore, he needs to accumulate 48 passing hours each year. Because of this, he must consider 12 hours as only a minimum load for full-time purposes with 16 hours per quarter as the average load he must maintain throughout the year. Further information on both Public Law 358 and Selective Service is available in the Registrar's Office.

### *Unit of Credit*

Southern Illinois University operates on the quarter system. Therefore, references to hours of credit mean quarter hours rather than semester hours. One quarter hour of credit is equivalent to two-thirds of a semester hour. One quarter hour of credit represents the work done by a student in a lecture course attended fifty minutes per week for one quarter, and, in the case of laboratory and activity courses, the stated additional time.

### *Class Standing*

An undergraduate student is classified as a freshman, sophomore, junior, or senior, depending upon the number of hours he has successfully completed toward the degree. A freshman is a student who has completed fewer than 48 hours; a sophomore, from 48 through 95; a junior, from 96 through 143; and a senior, 144 or more.



### Grading System

The following grading symbols are used for undergraduate work:

	GRADE POINTS PER HOUR
A—Excellent. ....	5
B—Good. ....	4
C—Satisfactory. (This is the grade for average performance.) ..	3
D—Poor. ....	2
E—Failure. ....	1
W—Authorized withdrawal with no basis for evaluation established. Work may not be completed. Approved grading symbol only on graduate level except for unusual circumstances where an aca- demic unit dean recommends a change in grade from <i>Ab</i> to <i>W</i> for a student.	
Wp—Authorized withdrawal with passing grade. Work may not be completed.	
WE—Authorized withdrawal with failing grade. Work may not be completed.	
Inc—Incomplete. Has permission of instructor to be completed.	
Def—Deferred. Used only for graduate courses of an individual, con- tinuing nature such as thesis or research.	
Ab—Unauthorized withdrawal. Same as <i>E</i> for academic retention purposes.	
S—Satisfactory. Used only for non-credit courses.	
U—Unsatisfactory. Used only for non-credit courses.	
Au—Audit. No grade or credit hours earned.	

All complete grades and the grades of *WE* and *Ab* are included in determining student grade-point averages for academic retention purposes.

Unauthorized course withdrawals made through the program change process do not receive grades when made during the first four weeks of a quarter. Thereafter, authorized withdrawals receive *Wp* for withdrawal with a passing grade, *WE* for withdrawal with a failing grade, or *W* (for graduate students only) when no basis for evaluation has been established.

Unauthorized course withdrawals which are made through failure of the students to continue in attendance receive a grade of *Ab*. An *Ab* grade for a student may be changed to a *W* in unusual circumstances upon the recommendation of the head of the student's academic unit.

An *Inc* grade may be changed to a completed grade within a time period to be designated by the instructor, not to exceed one year from the close of the quarter in which the course was taken; otherwise it remains as an *Inc* grade and is not included in grade-point computation.

A *Def* grade for course work of an individual nature such as research, thesis, or dissertation is changed to a completed grade when the project has been completed.

The grades of *S* and *U* are used to indicate satisfactory or unsatisfactory completion of a non-credit course.

A student registering for a course on an *audit* basis receives no letter grade and no credit hours. An auditor's registration card must be marked accordingly and he pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does

not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for audit or credit may change to a credit status or vice versa through the official program change method during the first four weeks of a quarter. Thereafter the change may not be made.

The official record of a student's academic work is maintained in the Registrar's Office.

*Scholastic Standards*

A student who fails to maintain a satisfactory grade-point average will be placed in categories other than Good Standing and may be required to discontinue attendance at the University for a period of time. (For transfer students, these requirements apply to his academic record at this University and to his over-all academic record.)

SCHOLASTIC WARNING

A student who is in Good Standing will be placed on Scholastic Warning at the end of a quarter in which he fails to make a 3.00 grade-point average provided he has calculated hours and an accumulative grade-point average as follows:

- fewer than 96 calculated hours and less than a 3.00 average,
- 96 but fewer than 144 calculated hours and less than a 3.10 average,
- 144 or more calculated hours and less than 3.15 average.

He is returned to Good Standing at the end of a quarter in which he makes a 3.00 average or better while on Scholastic Warning.

SCHOLASTIC PROBATION AND SUSPENSION

When a student on Scholastic Warning fails to make a 3.00 grade-point average for a quarter, he is placed on Scholastic Probation and may be subject to suspension from the University for scholastic reasons at the end of a quarter in which he fails to earn a 3.00 grade-point average while on Scholastic Probation.

To insure that a student is making progress toward the 3.00 grade-point average required for graduation he must maintain a progressively improving accumulative grade-point average. At the end of each spring quarter a student who has accumulated the number of calculated hours listed below must also have obtained the corresponding accumulative grade-point average:

QUARTER HOURS	REQUIRED AVERAGE
48- 95.5	2.40
96-119.5	2.70
120-143.5	2.80
144-159.5	2.90
160-	2.95

Otherwise he will be suspended from the University for scholastic reasons. He may seek reinstatement after a minimum of two quarters' interruption but must furnish tangible evidence that additional education can be successfully undertaken.

*Honors Day*

In recognition of high scholarship, an Honors Day convocation is held each spring. A candidate for a bachelor's degree in June or August who



has maintained a grade-point average of 4.25 or more for all of his work through the winter quarter of his senior year receives special honor. Each junior having a 4.25 grade-point average and each sophomore and freshman having a 4.50 grade-point average is also honored at the convocation. Except in the case of a graduating senior, a student must be attending full time to be eligible. A transfer student must have earned the average indicated for work at Southern Illinois University only, as well as for the total record. Graduating seniors are also recognized at Commencement on the graduation program, and their diplomas designate honors granted on the basis of Highest Honors (4.90 or higher); High Honors (4.75–4.89); and Honors (4.50–4.74).

### **Special Programs for Credit**

#### *Credit for Military Experience*

Credit will be accepted for USAFI courses within the limitations enforced for extension and correspondence work. No credit is allowed for college-level G.E.D. tests. In evaluating credit possibilities based upon formal service school training programs, the recommendations of the American Council on Education as set forth in the Guide to the Evaluation of Educational Experiences in the Armed Forces are followed.

In order to receive credit for military service a veteran must present a copy of his discharge or separation papers to the Registrar's Office.

#### *Extension and Correspondence*

A maximum of one-half of the number of hours required for the bachelor's degree, or 96 hours, may be taken by extension and correspondence courses combined. Of this total, not more than 48 hours may be taken in correspondence courses.

While Southern Illinois University does not maintain a correspondence division, courses taken by correspondence from institutions which are accredited by their appropriate regional accreditation association are regularly accepted if the grade earned is *C* or above.

#### *Honors Program*

Qualified students may receive credit for certain required and preparatory lower division courses through participation in the Program for Acceleration of Superior Students (PASS). Through organized course reviews and suitable proficiency tests scheduled during the academic year, superior students in PASS may prepare for divisional work at a rate determined by their individual motivation and capabilities. PASS allows the capable student to advance through required courses at a rate suited to his energy and motivation and in a manner calculated to be of most benefit to his freshman and sophomore education.

The program calls for the scheduled review of specified freshman and sophomore courses each quarter, leading to a proficiency test for each course at the end of each review. Review and related testing take place within a four-week period. Course reviews are scheduled in sequence through each quarter.

Students are ordinarily invited to participate in PASS on the basis of high school academic records and test results.

Interested students seeking additional information concerning PASS should contact the General Studies advisement office.



# 3 / General Studies

All students entering this University who plan to receive the baccalaureate degree are expected to complete a set of University-wide requirements, constituted as the General Studies program. This program is aimed at providing each student with a broad base of pertinent knowledge upon which a specialization may be built.

Progressive sequences of courses have been designed. First-level or freshman courses are planned sequences, with the second quarter's work generally based upon the first; and the third quarter's work, where offered, based upon the second. Second-level courses are normally completed during the sophomore and junior years. Third-level courses are offered to juniors and seniors. The courses are not self-contained, isolated units, but are intended to give progressively deeper insights based upon previous courses. The result is that a sense of unity is given to the entire General Studies program.

While the student is in the General Studies Division, he has an opportunity to gain experience in several bodies of knowledge and, hopefully, to make an unhurried selection of a professional goal and an area of concentration for his total educational program. If a student has made a tentative choice of his educational goal, he may carry courses in his area of special interest concurrently with the basic courses of the General Studies curriculum.

Students transferring from another college or university who are qualified for admission to a division other than General Studies should report to the General Studies advisement office to initiate the process. Before a student initiates transfer to an academic division, he should clarify any questions about his remaining General Studies requirements by discussing them with a General Studies adviser.

Appointments for General Studies advisement should normally be made early in the preceding quarter, well in advance of the registration period for that quarter.

## Transfer Students

Students who transfer to Southern Illinois University from an accredited university, college, or junior college will have their work evaluated for purposes of meeting the general degree requirements, including the General Studies requirements. Three-fourths of the work accepted for transfer must be C or higher. All grades earned at other institutions will be used in determining the student's grade-point average. In general, equivalent work in appropriate areas is applied to meet the requirements. Other courses may be accepted for general credit and may apply toward concentration or other requirements. Students now attending another college who intend to transfer to Southern Illinois University should plan their courses to complete specific sequences if possible.

### General Studies Requirements

The General Studies program is composed of five separate areas totaling 84 hours of required credit.

Area A—Man's Physical Environment and Biological Inheritance—includes physics, chemistry, botany, zoology, biology, earth science, etc. Both physical and biological science must be represented among the three required fields.

Area B—Man's Social Inheritance and Social Responsibilities—includes geography, history, economics, government, sociology, social studies, psychology, anthropology, etc.

Area C—Man's Insights and Appreciations—includes art, music, literature, philosophy, etc.

Area D—Organization and Communication of Ideas—includes English composition, speech, rhetoric, and mathematics or foreign language. Six hours of English composition and 3 hours of speech are required. A sequence of at least 9 hours must be offered in either mathematics or a foreign language. Some areas of concentration have a specific requirement of mathematics or foreign language or both.

Area E—Health and Physical Development—includes physical education and healthful living. Three hours of physical education, or the equivalent, and 3 hours of health education are required.

In each of the Areas A, B, and C, the student must offer for graduation a total of no less than 22 hours of acceptable college-level credit, except for the area of his approved waiver, which requires only 16 hours. In each case he must include at least three distinct fields of study within each area. Students should not include more than 6 hours of courses equivalent to third-level courses in any one of the areas A, B, or C.

In Area D the student must complete 18 hours of credit; in Area E, 6.

### Outline of Requirements

Area A, Man's Physical Environment and Biological Inheritance	22 hrs.
First-level basic sequence	8
Second-level continuation sequence	8
Third-level advanced courses	6
Area B, Man's Social Inheritance and Social Responsibilities	22 hrs.
First-level basic sequence	8
Second-level continuation sequence	8
Third-level advanced courses	6
Area C, Man's Insights and Appreciations	22 hrs.
First-level basic sequence	8
Second-level continuation sequence	8
Third-level advanced courses	6
Area D, Organization and Communication of Ideas	18 hrs.
Required English composition and speech	9
Either a foreign language or basic mathematics	9
Area E, Health and Physical Development	6 hrs.
First-level required physical education	3
Second-level required health education	3
Total General Studies Requirements	90 hrs.
Less 6-hour waiver at third level of Area A, B, or C	84 hrs.



### Summary of Area Requirements

#### *Man's Physical Environment and Biological Inheritance*

These General Studies courses aim to provide the student with an understanding of the structure of the sciences, the conceptual schemes they employ, the forms of reasoning used to reach their conclusions, and the procedures used to verify their validity. Improved understanding should lead to interest in the sciences and appreciation of the role of the sciences in human experience. The student who approaches the study of science with an appropriate attitude should find that discovery is a delightful intellectual experience.

#### *Man's Social Inheritance and Social Responsibilities*

The purpose in requiring a number of courses in Area B is to help the students develop an awareness of man's role in society, an ability to think intelligently about their environment, and an alertness to the complexities of the modern world.

These courses should assist the students in understanding the way men are shaped by the social processes. Study in the area should make students aware that their attempts to define these processes may increase their ability to determine their own destinies.

It is easy to see the importance of the great technological advances of the industrial revolution. But, it should not be overlooked that all scientific and mechanical innovations must attain their significance in a setting of human interrelationships and responsibilities.

#### *Man's Insights and Appreciations*

Amid all the changes in history, man in many basic ways is the same as he has always been. Human beings today experience the same basic desires and hopes, the same fears and failures, that they did in ancient times. And it is with these human constants that Man's Insights and Appreciations is most concerned. Of course, it is also concerned with the changing ways that these unchanging elements have been dealt with, with the unique ways man has expressed himself about them.

The title Man's Insights and Appreciations aptly describes the concepts to be studied in this area. The student will have an opportunity to enrich his own insights and appreciations. It is further hoped that he will be able to develop his own sense of values. For example, in philosophy and design, one can discover fundamental connections among various areas of human experience. In literature and philosophy one confronts various problems of good and evil and may be stimulated to clarify his own values. In the study of the various arts one ought to be able to come to a better appreciation of the creativity of others and even share directly in this experience. All told, it is hoped that this kind of study will contribute to what in an earlier time of history was spoken of as wisdom.

#### *Organization and Communication of Ideas*

Effective communication of ideas is basic to organized society. Transmission of information from one human being to another enables the second person to benefit from the experiences and insights of the first. Mutual exchange of ideas can be quite helpful. The experience of centuries can be communicated to those who live in the present.



Language, whether oral, written, or symbolic, is the fundamental means of communication.

Speech with its concomitant gestures and expressions is the original, and still most frequently used, mode of communication. It is fast and immediate, especially with modern technological advances which make it possible for one person to be heard and seen simultaneously by millions of persons over the world. Speech can have a spontaneity and emotional appeal that is difficult to find in other types of communication. Personal interaction is facilitated by appropriate usage of speech. Improved skills in listening should be developed along with an increased proficiency in speaking.

Written communication, with its greater permanence, ease of transmission, and opportunity for careful organization and presentation, forms much of our communication. Reading and writing are complementary aspects of written communication. Familiarity with our literary heritage contributes to effective writing.

Learning to understand the language usage of others extends to comprehension and use of foreign languages. The proper study of a foreign language includes an understanding of the cultural and historical viewpoints which have overtones in the peculiar idioms and modes of expression in a foreign language. Many of these are lost or imperfectly communicated in literal translation.

A person cannot fully appreciate or understand his own bias or the views of others until he has some understanding of the modes of communication employed in other cultures.

Mathematics can be regarded as a language especially developed for organizing and communicating ideas of quantity, structure, and relationships. The underlying logic and methods of reasoning are used in many of the sciences, technology, and business.

Each student is required to complete two courses in English composition and one in speech. He must also complete a sequence in foreign language or a sequence in mathematics. As far as General Studies requirements are concerned, each student has an option of completing a 9-hour sequence in a foreign language or in mathematics. The student should, however, exercise this option in the light of his future educational goals, since most areas of concentration specify that one or both of these subjects must be included in the student's program. (See the requirements for the specific areas of concentration, listed in Chapter 5 beginning on page 33.)

### *Health and Physical Development*

In the first-level required physical education sequence, all freshmen are enrolled for three quarters. In this program, opportunities are provided to learn, acquire, and develop skills in various physical activities. Because life does put such a demand on self-discipline, compulsion of performance, and in many cases rigid standardization of programs, many students need and seek an outlet for a healthy expression in some recreational activity.

The second-level requirements in Area *E* is a course in healthful living. Health is the foundation for all of one's activities. Health does not mean merely that the individual is not ill or incapacitated. Rather, it implies a positive state of complete physical, mental, and social well-being.

### *Program Flexibility*

As originally designed, the General Studies program consisted entirely of 3-hour courses. Currently in Areas A, B, and C two-course sequences of 8 hours have been approved, and some alternate course selections to the regular ones in General Studies are available. These features provide increased flexibility in programming the General Studies requirements by the student.

The General Studies program recognizes the excellence of a good high school preparation. If the student's scores on the entrance test so indicate, he may be accelerated in recognition of his better preparation and background.

Five processes used in the General Studies program to insure program flexibility and permit students to advance at their own rate of learning should be understood by all students: (1) advanced standing, (2) proficiency examination, (3) substitution, (4) third-level waiver, (5) College Entrance Examination Board (CEEB).

#### ADVANCED STANDING

It is possible for a student to gain advanced standing, that is to bypass some of the requirements without credit, in General Studies Areas A, B, C, and D.

Generally speaking, three criteria may be used in establishing eligibility for advanced standing: high school preparation in the area, scores on the A.C.T. test, and scores on special advanced standing examinations.

#### PROFICIENCY EXAMINATION

The University recognizes the importance of providing adequate encouragement for academically talented students. Hence, such students are permitted to make application to demonstrate the mastery of certain courses through proficiency examinations.

#### SUBSTITUTION

A student may substitute courses in other disciplines for the regularly prescribed General Studies courses. The General Studies advisement office has information about substitution possibilities.

#### THIRD-LEVEL WAIVER

Each student is entitled to waive the third-level courses in the Area (A, B, or C only) most closely related to the area in which he will concentrate his work. He should consult his adviser to find the approved area for waiver. In some academic units certain third-level courses in the area being waived may be required for the concentration. The area for waiver for each concentration is stated in the first line following the General Studies Requirements in Chapter 5.

The following third-level waivers have been approved:

Area A—applied science; biology; chemistry; engineering physics; general science and mathematics; health, recreation, and physical education; mathematics; medical technology; and physics.

Area B—American studies (B or C), anthropology, business administration, business teacher education, economics, geography, government, history, nursing, psychology, public administration and planning, sociology, and speech pathology and audiology (B or C).



Area C—American studies (*B* or *C*), art, elementary education, English, foreign language, music, philosophy, professional writing, special education, speech, speech pathology and audiology (*B* or *C*), and theater.

#### COLLEGE ENTRANCE EXAMINATION BOARD

A high school student who is qualified through registration in an advanced placement course in his high school or through other special educational experience may apply for advanced placement and college credit through the Advanced Placement Program of the College Entrance Examination Board, 475 Riverside Drive, New York, New York 10027. To receive credit, a person must earn the grade of 3, 4, or 5.

#### *Specific Requirements*

FIRST LEVEL .....		45 HOURS
GSA	101a-5 (physics ) and 101c-3 (chemistry) OR 110a,b (earth science)	
GSB	101b-4 (history) and 101c-4 (history) OR 103a-4 (sociology) and 103b-4 (economics)	
GSC	151-3 (poetry) and 155-5 (art) or 156-5 (music) or 157-5 (drama) or 158-5 (fine arts)	
GSD	101a-3 (English composition) and 101b-3 (English composition) and 103-3 (speech)	
GSD	112a-4 (introduction to mathematics) and 112b-5 (introduction to mathematics) OR 114a-5 (algebra) and 114c-4 (trigonometry) or 114d-4 (statistics) <sup>1</sup> OR a 9-hour sequence in a foreign language (3,3,3) <sup>1</sup>	
GSE PE (men)	116a (swimming), 102, plus 1 hour excluding 116a, 102	
(women)	OR 116a (swimming), 112, plus 1 hour excluding 116a, 112 BUT a student who passes a swim test or for whom no swimming facilities are provided must take 102 or 112 and 2 hours from 117 or 118.	
SECOND LEVEL .....		27 HOURS
GSA	201a-4 (biology) and 201b-4 (biology)	
GSB	201a-4 (anthropology) and 201c-4 (psychology) OR 203a-4 (government) and 203b-4 (geography)	
GSC	252-4 (logic) and 253-4 (literature) or 254-4 (philosophy)	
GSE	201-3 (health education)	
THIRD LEVEL .....		12 HOURS
Student waives the 6-hour third-level requirement in one area, depending upon his concentration.		
GSA	Any two of the GSA courses numbered 300-399 (except not both 330 and 331)	
GSB	Any two of the GSB courses numbered 300-399	
GSC	Any two of the GSC courses numbered 300-399	

<sup>1</sup> Some areas of concentration require foreign language, others require a mathematics sequence, some require both. The student should check the concentration requirements before he selects an option. Students having had high school foreign language or mathematics should see a General Studies adviser for exemption or advanced standing possibilities.



*Changes in Requirements*

Students who matriculated under the original General Studies program may be able to benefit by utilizing certain provisions of the revised program.

If the student chooses, and the faculty of his concentration approves in writing, he may exercise a third-level waiver under the new pattern instead of a first-level waiver as under the original pattern.

If a student did not originally have a waiver, he now has one as far as the General Studies requirements are concerned. The waivers are listed on pages 15-16. The student's area of concentration may, however, require him to take the courses which General Studies will allow him to waive.

In Areas A, B, and C the student must meet first-, second-, and third-level requirements except for that area in which he is permitted to waive a first- or third-level sequence. He may be able to complete a first- or second-level sequence with new courses in an 8-hour sequence instead of the previously required 9 hours. If a student has an incompleting sequence, he should discuss with a General Studies adviser means of completing the sequence.



# 4 / Instructional Units

## General Studies Division

S. D. LOVELL, *Dean*

*Man's Physical Environment and Biological Inheritance; Man's Social Inheritance and Social Responsibilities; Man's Insights and Appreciations; Organization and Communication of Ideas; Health and Physical Development*

The General Studies Division administers and coordinates the General Studies program. General Studies courses are approved by the General Studies committee and are taught by members of the appropriate faculties within the academic divisions. (See preceding chapter which discusses in detail the General Studies program.)

## Business Division

KENNETH H. MYERS, *Dean*

*Accounting; Business Administration; Business Education; Economics; Finance; Management Systems; Marketing; Personnel and Industrial Relations; Production*

The Business Division provides educational preparation for young men and women who plan careers in business and in the related professional fields of economics and business education. The following degree programs are offered:

**Business Administration**—The Bachelor of Science degree with a concentration in business administration is granted by the division. Students supplement the general program in business with a sequence of courses in one of the following specializations: accounting, general; accounting, professional; business administration, general; economics; finance; management systems; marketing; personnel and industrial relations; and production.

**Economics**—Two somewhat different degree programs are granted by the division, the Bachelor of Science degree with a concentration in economics and the Bachelor of Arts degree with a concentration in economics. In addition, the Education Division offers a degree program in which students may choose to specialize in economics.

**Business Education**—The Bachelor of Science degree with a concentration in secretarial and office administration is offered by the Business Division. In addition, the Bachelor of Science degree with a concentration in business-teacher education is granted by the Education Division. The first of these degree programs is intended for students who will enter business directly, and the second for those planning to enter the teaching profession.



### *A General Philosophy*

The General Studies program of the University undergirds each of the degrees offered by the Business Division and assures the student of a broad base in the cultural heritage of this society as well as in the scientific and technological foundations of this dynamic age. Beyond these considerations, the Business Division has the following general objectives:

1. To encourage recognition of the transitory nature of even the best of present theory and practice in each of its fields, and to this end to anticipate and facilitate scientific, technological, and cultural advancement rather than to disparage and resist it.

2. To identify and emphasize that which is fundamental to each of its disciplines, and to this end to stress conceptual and analytical capability rather than the power to recall facts or to repeat routines.

3. To encourage an inquiring mind, a constructive skepticism, and a creative outlook; and to this end to sharpen the ability both to perceive problems and to transform them into opportunities for positive action.

4. To emphasize the importance of communicating facts, concepts, analyses, and proposals clearly and succinctly, whether in oral or written form, and before large groups as well as small, and to strengthen skills pertaining thereto.

5. To advance the concept that an individual's education can be and should be a continuing process; to encourage both formal and informal programs of post-graduate development as technology advances and individual responsibilities grow.

6. Above all, to temper the carefully calculated response with consideration for one's fellowmen and to hold to a high standard of personal integrity and social responsibility both in professional and personal life.

These general objectives impinge both upon the Business Division's curriculum, or choice of subject matter, and its pedagogy, or choice of teaching method. In respect to the latter, the Business Division endeavors to use the methods of teaching which consider the students as active participants in an on-going learning process rather than as passive vessels into which a certain quantity of knowledge is to be poured at daily lectures and measured at quarterly intervals. It follows that the quality of the student's intellectual processes, as well as his knowledge of particular subject matter, are factors of vital concern to the Business Division.

### **Education Division**

H. D. SOUTHWOOD, *Dean*

*Counselor Education; Early Childhood Education; Educational Administration; Elementary Education; Foundations of Education; Health Education; Instructional Materials; Physical Education for Men; Physical Education for Women; Psychology; Secondary Education; Special Education*

The Education Division, in keeping with the traditions of Southern Illinois University, stands committed to the development of effective professional educators. Teachers are prepared for all levels of learning and in the subject matter areas of the public school program. The Education Division offers programs dedicated to the development of professional educators capable of meeting, with ever broadening horizons, the needs of a variegated and changing community.

For undergraduate students preparing to teach at either the elementary or the secondary school levels, the preparation for teaching, including student teaching, is taken in the Education Division. A subject matter concentration that is not education is taken in another division. Courses of study for supervisors, administrators, and specialists, as well as basic and advanced courses in the fields of psychology, guidance, and the foundations of education, constitute an important part of the broad offerings of the division.

Students anticipating careers in education may prepare for secondary, elementary, and kindergarten teaching; for school administration and supervision; for health, recreation, and physical education; for counselor education, psychology, and special education; for instructional materials; and for other community services.

Supervised student teaching is conducted in the public schools of the broad and varied geographic area served by Southern Illinois University.

The Education Division offers programs leading to undergraduate Bachelor of Science degree and the Bachelor of Arts degree in psychology.

### *Teacher Certification Programs*

All students who wish to undertake programs leading to teacher certification are required to make application to the Education Division. This may be done after completion of 64 hours. Students will be eligible to take education courses after favorable action on their application. Upon satisfactory completion of the teacher education program and other related University requirements the dean of the Education Division will recommend to the State Superintendent of Public Instruction that the student be granted a teaching certificate.

### **Fine Arts Division**

ANDREW J. KOCHMAN, *Dean*

*Art and Design; Music; Speech and Theater*

The objectives of the Fine Arts Division are to broaden and intensify experiences in the fine arts and communicative arts and related sciences in the area served by the University; to impart to all University students an awareness of the cultural values of the arts; in art, design, music, speech, speech pathology and audiology, and radio and television; to provide facilities for the creative and scholarly pursuit of the arts; and to offer specialized courses of study to serve the ends of liberal and professional education. The performing arts are emphasized through exhibitions, concerts, lectures, and theatrical productions.

### **Humanities Division**

GERALD J. T. RUNKLE, *Dean*

*American Studies; Comparative Literature; English Language and Literature; Foreign Languages and Literature; Journalism; Philosophy; Professional Writing*

The Humanities Division provides instruction in the intellectual disciplines of English and other languages, of literature, and of ideas. The division is concerned with instruction in the reading, writing, and speaking of English and other languages, the development of an understanding and appreciation of literature, and the concomitant recognition of its



civilizing values. The division guides advanced students in methods of studying and arriving at comparative evaluations regarding the works, men, and movements that make up literary and intellectual history. All students are encouraged to think and to write rationally, imaginatively, and responsibly as they learn to identify persistent human problems and their classic and current solutions.

### Science and Technology Division

LAURENCE R. McANENY, *Dean*  
*Applied Science; Biology; Chemistry; Engineering;*  
*Mathematics; Physics; Science and Technology*

The Science and Technology Division offers courses of study in mathematics, the natural sciences, and in applied science and pre-engineering.

Candidates for the Bachelor of Arts or the Bachelor of Science degree with concentrations in any of the disciplines in the Science and Technology Division must meet the following requirements:

1. At least 48 hours of credit in one area of concentration with a minimum grade-point average of 3.00.
2. A minimum grade-point average of 3.00 for all courses numbered above 299.
3. At least 9 hours of credit in the area of concentration in courses numbered above 299 must be earned at Southern Illinois University within two years preceding the completion of requirements for the degree.
4. Upon completion of 64 hours of credit, each student in the division must file a tentative curriculum outline with his division adviser.

Candidates for the Bachelor of Science degree in education who select an area of concentration within the Science and Technology Division must have at least 48 hours (or 36, if two 27-hour concentrations are completed in other areas of study) in that area with a minimum grade-point average of 3.00 overall and for all courses numbered above 299.

A secondary concentration within the Science and Technology Division must include at least 27 hours of credit with a minimum grade-point average of 3.00. Specific requirements, if any, are listed in this catalog under the heading Secondary Concentration for the particular discipline.

To qualify for honors in an area of Science and Technology, one must complete at least 48 hours of credit, or the equivalent, in that area including successful completion of 9 hours of the corresponding honors program.

### Social Sciences Division

EARL S. BEARD, *Dean*  
*American Studies; Anthropology; Geography; Government;*  
*History; Public Administration and Planning; Sociology*

The Social Sciences Division offers courses designed to enable the student to achieve an understanding and appreciation of civilization viewed in historical perspective, and to gain, through the various social sciences, an awareness of the society of which he is a part and of his role in it. His studies give him insights and understandings which enable him to live more constructively with others in his family, community, and nation and which provide him with a better understanding of social organizations, technologies, and the nature and variety of human beliefs and attitudes.



## Department of Nursing

HARRIET SMITH REEVES, *Dean*

The Department of Nursing was established by the Board of Trustees at Carbondale in 1953 as an autonomous unit in the University's educational structure. It was formally activated in 1956. The first program was considered supplementary and offered to registered nurses in the spring of 1956. The first class of students in the basic generic program was admitted in the fall of 1956. In the fall of 1963 the two programs were combined. In July, 1963, the Board of Trustees approved moving the nursing program to the East St. Louis Center of the Edwardsville Campus. At present the entire program may be taken at the Edwardsville Campus; or the first four quarters including the summer quarter of the first year which is preclinical and primarily liberal arts subjects, may be taken on the Carbondale Campus; the remainder must be taken at the Edwardsville Campus starting in the fall quarter of the sophomore year.

The Department of Nursing has as its controlling ideal the education of students in a broad understanding of their cultural heritage; the appreciation of spiritual, aesthetic, and moral values in personal, civic, and professional living; the cultivation of critical and constructive thinking related to general as well as health needs of all individuals and to local, national, and international health problems. The curriculum (1) is based on a broad foundation of liberal arts, (2) emphasizes the importance of prevention of illness as well as its curative requirements, (3) gives understanding of the physical, mental, emotional, and social aspects of health and illness and their interrelatedness, (4) helps each student develop the ability and desire to give the best possible nursing care to society, and (5) serves as a foundation and stimulus for graduate study.

Applicants to the program may be either registered nurses, graduates of diploma or associate degree programs, or high school graduates who wish to become registered nurses and obtain a baccalaureate degree in nursing.

Applicants must meet all of the requirements for admission to the University. When they become students, they are subject to all of the University rules and regulations.

There are no restrictions regarding age, marital status, race, color or creed to admission of applicants providing they meet all other requirements of admission to the University and later to the Department of Nursing. Students are evaluated on the basis of mental and physical health, personality and character traits, academic achievement and progress toward professional maturity.

A registered nurse who wishes to enter the program must meet all requirements for admission to the University and in addition:

1. Be a graduate of a state-approved school of nursing.
2. Be a registered nurse currently licensed to practice.
3. Show satisfactory placement on the National League for Nursing Graduate Nurse Examination. Some advanced credit may be allowed for satisfactory performance on these tests.

The steps to take for admission to Southern Illinois University are as follows:

1. Obtain application forms from the University and proceed with all instructions therein.

2. Arrange for a personal interview with a faculty adviser in the Department of Nursing.

3. Early registration for classes according to the schedule which will be mailed the applicant is advisable.

Early in the first quarter of the second year students must purchase uniforms. The approximate cost is \$75 to \$85.

Students may live at home, in residence halls, or in University-approved off-campus housing.

Several hospitals, public health agencies, day care centers, nursery schools, and other community institutions are used for clinical experience. Students are expected to pay their own travel expenses to and from these facilities.

A limited number of scholarships, traineeships, grants, and loans are available to student nurses from national, state, and local resources.

Inquiries may be addressed to Office of Student Affairs or Dean, Department of Nursing, Southern Illinois University, Edwardsville, Illinois 62025.

### Aerospace Studies

MAJOR JOSEPH L. HORVATH, *Commander*

The objective of the Air Force Reserve Officers Training Corps program is to qualify students for appointment as Second Lieutenants in the United States Air Force. The Air Force ROTC unit at Southern Illinois University, Edwardsville, is a senior division unit established in September 1965. It is administered by commissioned officers of the USAF who have been assigned by Department of the Air Force with approval of the University.

The Air Force ROTC program at Edwardsville is a two-year course of study. To compete for entry into the program an applicant must qualify competitively on a written exam, pass a physical examination, and be selected by an interview board of Air Force Officers. Selected applicants must first successfully complete a six-week field training course conducted at an Air Force Base prior to entry into the two-year program. The applicant must have two academic years of undergraduate or graduate study or combination of the two remaining. Upon completion of the two-year program, the Professional Officer Course and the institutional requirements for a degree, the cadet is commissioned as a Second Lieutenant in the U.S. Air Force. Unless he is granted an educational delay to pursue or continue graduate work, the new officer enters active duty shortly after graduation.

The six Professional Officer Courses (POC) are designed to provide the fundamental training, both personal and professional, which will best equip a cadet to become an effective junior Air Force Officer possessing a high growth potential and, if qualified, to develop and stimulate a growing desire on his part to enter the Air Force Flight Instruction Program. Emphasis is given, both in theory and practice, to outlining the leadership and managerial responsibilities of squadron-level officers, to improving oral and written expression, and to learning techniques of the problem-solving process. Field trips to Air Force bases supplement classroom instruction by familiarizing the cadet with Air Force operations and organization.

Qualified senior Air Force ROTC cadets interested in becoming Air



Force pilots participate in the Flight Instruction Program. Each FIP student receives thirty-six and one-half flying hours at an FAA approved flying school.

In addition to academic programs, the Air Force ROTC unit sponsors the Arnold Air Society, a national professional service organization.

The 18 academic hours (six courses of 3 hours each) of the Professional Officer Course are allowable toward a bachelor's degree.

Air Force ROTC textbooks will be furnished on a loan basis to all the Air Force ROTC students.

Selection of students for application and/or enrollment will be made by the Professor of Aerospace Studies as provided in Public Law 88-647 from qualified applicants as follows:

1. Personal qualifications
  - a. The applicant must qualify competitively on the Air Force Officer Qualification Test.
  - b. The physical standards prescribed for appointment to the United States Air Force Reserve in AFM 160-1 will apply.
  - c. The applicant must be accepted as a student in Southern Illinois University and be in good academic standing.
  - d. The applicant must have not reached his twenty-fifth birthday at the time of initial enrollment in the POC.
  - e. An applicant must have:
    - (1) been selected and successfully completed six weeks field training;
    - (2) completed the General Military Course. This is for transfer students from institutions which offer the Air Force ROTC four-year program;
    - (3) had previous training or honorable service. On the basis of previous service in the Air Force, Army, Navy, Marine Corps, or Coast Guard a cadet may request a waiver for the General Military Course.
  - f. At the time of acceptance, the applicant must have two academic years remaining either at the undergraduate or graduate level or a combination of the two. This will not exceed more than two academic years prior to completing all prerequisites for an undergraduate degree from the University.
2. Condition of Service. All POC students will become members of the Obligated Air Force Reserve and will be under contract with the Government. The contract will contain the following provisions:
  - a. The student agrees:
    - (1) unless sooner released for the convenience of the Government to complete the POC.
    - (2) to accept an appointment as Second Lieutenant, United States Air Force Reserve, if and when tendered.
  - b. The Department of the Air Force agrees to pay the student a retention fee at a monthly rate as announced by that department. The current rate is \$50 per month for a maximum period of twenty months.
3. In addition to the monetary emoluments listed above, the POC cadet receives:
  - a. an officer-type uniform. The uniform remains in the possession of the cadet during his two-year enrollment and becomes his property upon the successful completion of the Air Force ROTC program;



- b. in excess of \$125 for the six-week field training course and a travel allowance to and from that place of training.

#### *Air Force ROTC Awards*

Awards are presented to outstanding cadets during each academic year. The following are the awards that may be presented.

1. The Commander's Award. Awarded by the detachment to cadet commanders appointed during the school year in recognition of leadership ability as demonstrated in command positions in the cadet corps.
2. The Trustees' Award, Senior Student. Awarded to the outstanding cadet in the senior year, based on standing in the University and in AF ROTC, and on aptitude for general service.
3. The Trustees' Award, Junior Student. Awarded on the same basis as for the senior cadet, except to a junior.
4. Air Force Association Medal, Outstanding Senior Cadet. Awarded to the senior cadet making the highest military grades of the year.
5. The Reserve Officers' Association Award, Junior Student. Awarded to the outstanding junior cadet, based on the University and on AF ROTC grades for the current year and on aptitude for general service.
6. The Air Force Times Award. Awarded to the senior cadet bringing constructive attention to the cadet corps.
7. Chicago Tribune Award. Awarded to the outstanding cadet, based on the highest grade in the particular military course of the current year and on aptitude for general service.
8. American Legion Award. Presented to AF ROTC cadets in recognition of continued outstanding service in the interest of the corps.
9. American Legion Scholastic Award, Junior and/or Senior Student. Presented to the cadet with the most active participation in student activities in the top ten per cent of his class in the University.
10. McDonnell Aviation Award. Awarded to the outstanding senior cadet who has been selected for pilot training.
11. Sons of American Revolution. Awarded to the junior cadet with the highest over-all academic standing and military aptitude.

#### **University Extension Services**

RAYMOND H. DEY, *Dean*

H. BRUCE BRUBAKER, *Assistant Dean*

The University Extension Services is an all-university agency with offices on both the Carbondale and Edwardsville campuses. Its major function is to impart knowledge to persons not in regular attendance at the University. This is done in two ways: (1) The Extension Class Program, and (2) The Educational Conference Program.

Extension classes, which offer college credit and are identical to similar classes offered on the campus, are scheduled in the various communities in the southern half of the state of Illinois or are offered by radio or television for Southern Illinois residents, where there is a need for them. Classes are also scheduled in foreign countries when there are definite advantages to having them offered there.

The Educational Conference Program is conducted on both campuses of the University and occasionally off campus in nearby cities and towns. Assistance is not only given for local conferences but for state and na-

tional conferences. Persons attend these conferences from the state of Illinois, from all parts of the country, and in some instances from all over the world.

The University Extension Services, in its programs, uses professional faculty members, distinguished visiting authorities, library facilities, various teaching aids, and many other resources of the University in carrying out its function.

### *Policies and Procedures of the Extension Class Program*

#### CLASS MEETINGS

Three-hour Extension classes meet weekly for a period of 12 weeks, each meeting being 2½ hours in length unless otherwise stated. Four-hour Extension classes meet weekly for a period of 16 weeks, each meeting being 2½ hours in length, or weekly for 12 weeks with 4 extra meetings being arranged by the instructor and the group, with the exception that 4-hour graduate classes meet weekly for 12 weeks.

#### FIRST CLASS MEETING

The date of the first meeting of an Extension class is arbitrarily set by the extension dean. The instructor and the group, at the first meeting of the class, decide upon which day of the week subsequent meetings are to be held if the instructor has other days available.

#### TUITION AND FEES

Tuition is \$6.00 per quarter hour of credit plus a \$1.05 textbook rental fee. The textbook rental fee must be paid by all students, including holders of Normal School and Military scholarships, except graduate students who must purchase, or make other arrangements for, their books. (The instructor has the privilege of requiring the purchase of additional books and materials.)

#### REGISTRATION

Registration for Extension classes will be conducted by the instructor during the first and second meetings of the class. Students are urged to register at the first meeting. Students registering after the second meeting of the class must have unusually good reasons for doing so which must be approved by the dean of University Extension Services. A late registration fee of \$5.00 will also be charged.

All Extension students must have their Social Security numbers with them in order to complete their registration at the first class meeting.

#### AUDITING

Persons not interested in receiving credit may audit courses, if facilities are available, by receiving permission from the instructor. Auditors pay the same fee as those who register for credit.

#### TEXTBOOKS

Undergraduate students will be able to obtain rented textbooks at the first meeting of the class. Graduate students may either purchase books at the first meeting of the class or complete a form for ordering them. In this case, the books ordered will be available at the second meeting of the class.



## LIBRARY FACILITIES

Each instructor may, if he so desires, take a number of supplemental reading books, perhaps thirty or forty, to his Extension class. These books are readily available to the student as they are kept in the room where the class is conducted. Students are also issued a Library Permit which enables them to use any of the libraries on any of our campuses. There is no charge for these services.

## EXTENSION CREDIT APPLICABLE TO THE BACHELOR'S AND MASTER'S DEGREES

Extension credit may be applied to meet graduation requirements or towards a master's degree. University policy provides, however, that not more than one-half of the total credit required for graduation, or 96 hours, may be obtained in off-campus courses. Sixteen hours of Extension credit may be applied toward a master's degree.

## COURSE NUMBERING SYSTEM

Any 400 level course may be used for either undergraduate or graduate credit. The 500 level courses are open to graduate students only. Only students who have graduate standing or more than 96 hours of undergraduate credit, which is at least junior standing, may register in a 400 level course. Other Extension courses are open to students who are high school graduates or over 21 years of age (students who have been forced to drop school because of low grades are not eligible for Extension work unless permission is obtained from the proper campus academic dean). Those starting to work toward the master's degree must come to the Graduate School Office before the end of their first course and have an adviser assigned to help plan the rest of their graduate program.

## SCHEDULING EXTENSION CLASSES

Extension courses will be scheduled under the following three conditions: (1) Where it is apparent that there is a need present and adequate enrollments to justify scheduling the class; (2) When it is possible to obtain a faculty member to teach the class; and (3) When adequate laboratory and library facilities are available.

*Educational Conference Program*

## PURPOSE OF THE PROGRAM

Educational conferences are scheduled when off-campus persons are in need of knowledge which may be obtained from our professional faculty members, from outstanding authorities who may be brought to the campus, or which may evolve as a result of panel and other discussion techniques participated in by those mentioned above as well as others.

## ORIGIN OF CONFERENCE

The idea of a conference may originate from one or more persons who are members of one of our academic departments or divisions, from one or more persons with similar interests off-campus, from a member of the University Extension Services, or by a combination of these as well as other persons.

A call to the University Extension Services will set in motion the process which results in a specific conference.



## CONFERENCE PLANNING

A conference planning group is usually desirable in order to determine if there is a real need for a conference, to better define this need, and to discuss the best personnel and conference techniques to meet this need.

## ASSISTANCE PROVIDED BY THE UNIVERSITY EXTENSION SERVICES

In addition to helping determine and assemble a conference planning group, to advise this group of conference techniques which will probably be most successful for this particular conference, and to perform other details incidental to planning, many other activities are often carried on by the University Extension Services. Some of these are as follows:

1. Make arrangements for persons to appear on the conference program, including subject matter specialists as well as representatives from the University Administration.
2. Assemble the conference program and have it printed.
3. Determine a mailing list and send invitations.
4. Arrange for publicity about the conference through a number of media.
5. Reserve auditoriums and other meeting rooms.
6. Arrange for coffee hours, luncheons, and banquets.
7. Requisition microphones, movie and slide projectors, and other paraphernalia of this type.
8. Arrange for registering persons attending the conference.
9. Make any special parking arrangements needed.
10. Make arrangements for lodging for conferees.
11. Arrange tours of campus and other facilities.
12. Arrange social hours for spouses of those attending the conference.
13. Meet trains and airplanes where necessary.
14. Type and distribute copies of speeches presented at the conference.
15. Perform a number of other activities often necessary for a particular conference.

## COSTS

A conference registration fee is often assessed to cover some of the conference costs. On some occasions other sources of funds are used to pay for bringing outstanding authorities to the conference and to cover other expenses.

**Division of Technical and Adult Education**

ERNEST J. SIMON, *Dean*

E. R. CASSTEVEN, *Assistant Dean*

The Division of Technical and Adult Education serves adults and high school graduates interested in obtaining a college-level course of instruction of a shorter duration than the usual four-year college program, qualifying them for employment at the semi-professional and technical level in industry and business.

*Vocational-Technical Institute*

The Vocational-Technical Institute provides for high school graduates one- and two-year college-level terminal courses of study for training technicians. These courses of study are designed to prepare men and

women to fill the positions in business and industry between the skilled worker and the engineer or professional man. (See the Division of Technical and Adult Education bulletin.)

### *Adult Education*

The Adult Education course of study consists of noncredit courses in various vocational, technical, and general education fields designed to provide a wide variety of educational opportunities for adults.

Most courses range in length from eight to twelve weeks, two or three hours weekly. Certain special courses are offered for sixteen to twenty-four weeks. These tailor-made courses are varied to meet the interests and needs of the adults served. (See the Division of Technical and Adult Education bulletin.)

The adult education courses are taught by regular staff members obtained from every division of the University, as well as carefully selected specialists from the ranks of business, industry, and the professions.

### **Center for the Study of Crime, Delinquency, and Corrections**

CHARLES V. MATTHEWS, *Director*

The Center for the Study of Crime, Delinquency, and Corrections spans both campuses of the University—the Carbondale Campus, emphasizing adult corrections; and the Edwardsville Campus, focusing on the problems of delinquent youth.

Myrl Alexander, director of the center since its inception in the spring of 1961, was appointed by Attorney General Robert F. Kennedy to serve as Director of the Federal Bureau of Prisons in August of 1964. Charles V. Matthews, Assistant Director, was named Director of the Center the following year.

The Delinquency Study and Youth Development Project, located on the Edwardsville Campus, is a federal training center under the joint sponsorship of Southern Illinois University and the President's Committee on Juvenile Delinquency and Youth Crime. This Project, funded annually, is made possible by a federal grant of \$115,988 plus a Southern Illinois University matching grant of \$134,035. These grants were awarded under the provisions of Public Law 87-274.

The staff of the project consists of an inter-disciplinary team of social scientists working at problems of youth. In the three years of its existence it has both studied the problems of youth—especially youth from urban slums—and helped train those who work with them. Demonstrative programming for youth, in-service training of professionals and para-professionals, regional conferences, and action research have been typical Project activities.

The project offers course work in the behavioral sciences, and graduate assistantships are available for students working toward a degree in the “helping professions.”

### **Labor Institute**

JOHN M. McDERMOTT, *Director*

NORMAN JOHNSEN, *Assistant Director*

The function of the Labor Institute is to promote harmony and cooperation between labor and management by encouraging the training of stu-

dents and others interested in labor and industrial relations and to provide advice on the technical aspects of labor and industrial relations to labor, to industry, and to the public.

### **Small Business Institute**

R. RALPH BEDWELL, *Director*

ARNOLD G. FRANKE, *Assistant Director*

The primary objective of the Small Business Institute is to develop executives for small businesses, rather than to create specialists in a single field such as accounting, finance, sales, etc. Management of a smaller business requires more all-around "know-how." While concepts taught are those of modern big business, the applications are directed to small business operations.

Graduates from this four-year course of study receive the Bachelor of Science degree in small business management, granted by the Business Division.





# 5/ Areas of Concentration

## *Fields of Study*

Below are the fields of study in which Southern Illinois University grants bachelor's degrees to Edwardsville Campus students. Also appearing in this chapter is information on engineering, instructional materials, secondary education, and student teaching. A bachelor's degree normally requires four years of study.

American Studies	History
Anthropology	Journalism <sup>1</sup>
Applied Science	Mathematics
Art	Music
Biology	Nursing
Business Administration	Philosophy
Business Education	Physics
Chemistry	Professional Writing
Comparative Literature <sup>1</sup>	Psychology
Economics	Public Administration and
Elementary Education	Planning
English	Sociology
Foreign Languages	Special Education
Geography	Speech
Government	Speech Pathology and Audiology
Health, Recreation, and Physical Education	Theater

## *Abbreviations Used in This Chapter*

Three-digit numerals are used to identify specific courses. The first numeral of the three indicates the level of that course. A letter following an identification number indicates a *part* of a course (*a* means first part, *b* means second part, etc.). A numeral separated from the identification number by a dash indicates the number of hours required in the course. For example, History of Rome 306-9 indicates a third-level course of 9 hours in the Social Sciences Division, and History of Rome 306a,b, or c indicates that the course has at least three parts.

The five areas of General Studies are referred to as GSA, GSB, GSC, GSD, and GSE. The three-digit numerals following these abbreviations function similarly to those noted above. Numerals 1, 2, or 3 following one of these abbreviations and separated by a dash indicate the level requirement in that area. For example, GSA-3 indicates the third-level requirement in General Studies Area A.

Numerals in parentheses in columns of figures pertain to course hours which satisfy more than one requirement. They are in parentheses to

<sup>1</sup> Secondary concentration only.

avoid their being added into the total of the column which would be a duplication of hours required. For example, under Biology, GSA 201 satisfies part of the General Studies requirements and contributes 8 hours toward the 84 hours required. It also satisfies one of the requirements for the concentration in Biology but does not contribute to the printed total of 77–79 hours.

### American Studies

#### *Bachelor of Arts Degree, HUMANITIES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB–3 or GSC–3.)	84
<i>Requirements for Concentration in American Studies</i>	68
American Studies 398	4
English 309–8	8
Foreign Language (2 or 3 years in a language)	(9) + 9
GSB 300–9	(6) + 3
Philosophy 381b,c, 386–4	12
Approved courses in history, social sciences, literature, philosophy, fine arts, and other areas. (At least two courses must be in speech or fine arts.)	32
<i>Electives</i>	40
<i>Total</i>	192

### Anthropology

The concentration in anthropology is designed to familiarize students with the major divisions, viz., archaeology, ethnology, social anthropology, linguistics, and physical anthropology. A student is expected to elect anthropology courses to develop further his knowledge in one of the five divisions.

#### *Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB–3.)	84
<i>Requirements for Concentration in Anthropology</i>	35
GSA 365, GSB 201a, GSD FL	(16)
Anthropology 304, 400, 405, 408, 409, 430	27
Electives to complete 42 hours in anthropology chosen in consultation with the faculty (GSA 365 and GSB 201a contribute 7 hours to the concentration.)	8
<i>Secondary Concentration</i>	27
<i>Electives</i>	46
<i>Total</i>	192

Anthropology courses adapted to the General Studies program may be used as electives. Students demonstrating an interest in linguistics can use English 400 to meet concentration requirements.

#### *Secondary Concentration*

A secondary concentration in anthropology consists of 27 hours. GSA 365–3, GSB 201a–3, 351b–3, 336–3, and English 400–4 may be counted as part of the concentration.



Applied Science

Science is concerned with discovering and describing the structure and processes of nature; engineering is the professional art of applying science to the optimum utilization of natural resources for the benefit of man. Applied science designates activity that helps translate pure science into forms amenable to utilization by engineers. The applied scientist should have an even stronger scientific background than the engineer; he should have a stronger orientation toward utilization of discovery for man's benefit than the pure scientist. Applied science may be thought of as science in the process of becoming technology, and is particularly concerned with the application of new scientific discoveries.

Bachelor of Science Degree, SCIENCE AND TECHNOLOGY DIVISION

General Studies Requirements (See Chapter 3. Waive GSA-3.)	84
Requirements for Concentration in Applied Science	126
Applied Science 101-6, 420-3	9
Chemistry 111b,c	(3) + 7
Engineering 260-9, 311-9, 420-6	24
Mathematics 150-8, 225-4, 252-8, 305-6, 452-6, 480-4	(9) + 27
Physics 211-15, 300-5, 304-3, 305-8, 307-2, 309-4	(5) + 32
Elective (technical)	4
Options	23
Physics: Engineering 343-6, 405-6, Mathematics 407-3, Physics 415-8	
Mathematics: Engineering 423-3, 460-8, Mathematics 452c-3, 480b,c-6, Elective (technical)	
Total	210

The first two years of the above program constitute a two-year pre-engineering curriculum (see Engineering).

Art

Undergraduate offerings in art provide both introductory and specialized experiences. Courses are available for those desiring a concentration in art and for those interested in art as an avocation.

For a Bachelor of Arts degree in art, 81 hours in art with the emphasis on a liberal arts degree are required.

The University asserts the right to withhold an example of the work of each student in each class. Such works become a part of a permanent collection from which exhibitions may be prepared.

During the last quarter of his junior year any art student may petition the art faculty to grant him the privilege of an exhibition of his work. Such an exhibit may be comprised of the work of an individual or may be composed of the works of several seniors. Participation is not required for graduation; permission to participate is extended in recognition of industry and ability.

Bachelor of Arts Degree, FINE ARTS DIVISION

General Studies Requirements (See Chapter 3. Waive GSC-3.)	84
Requirements for Concentration in Art	81

GSD FL .....	(9)
Art 100-15, 202-15, 225-9 .....	39
Art 310-4, 358-4, 393-4 .....	12
12 additional hours from one of the following: ceramics, prints, sculpture, or art history .....	12
Art electives .....	18
<i>Electives or Secondary Concentration</i> .....	27
<i>Total</i> .....	192

STANDARD SECONDARY CERTIFICATE

Requirements for certification include 8 hours in art education, Educational Administration 355-4, Counselor Education 305-4, Secondary Education 315-4, and 352d-12 (32 hours).

*Bachelor of Science Degree*, EDUCATION DIVISION

For this degree the following courses constitute a concentration in art: 100-15, 202-15, 225-9, 300-4, 305-4, 310-8, 358-8, 365-4 (67 hours).

*Secondary Concentration*

One desiring a secondary concentration in art should consult the faculty chairman.

**Biology**

Students planning to concentrate in biology should consult with the biology faculty representatives.

*Bachelor of Arts Degree*, SCIENCE AND TECHNOLOGY DIVISION

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) ....	84
<i>Requirements for Concentration in Biology</i> .....	77-79
GSA 201-8 .....	(8)
GSD FL .....	(9)
FL 126-3 .....	3
GSD 114a,b-9 and 114d-4 .....	13
Physics 206-15, or GSA 101a-5 and Mathematics 150-8	13-15
Chemistry 111-15, and 305-10 or 341-15 .....	(25-30)
Biology 301-11, 302-20, 303-12, 390-1 .....	44
One elective in biology at the 400 level (minimum of 4 hours) .....	4
<i>Secondary Concentration</i> .....	27
Only 3 hours of chemistry in addition to the above requirements are needed for a secondary concentration in chemistry.	
<i>Electives</i> Recommended: Three additional quarters of foreign lan- guage elected, quantitative analysis, physical chemistry, calculus. .	4-2
<i>Total</i> .....	192

*Bachelor of Science Degree*, EDUCATION DIVISION

For this degree, the requirements for concentration in biology are as listed above, under Bachelor of Arts degree, except that no foreign language is required.



*Bachelor of Science Degree, SCIENCE AND TECHNOLOGY DIVISION*

Students planning to become medical technologists should consult with an appropriate biology faculty representative to work out their individual courses of study.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.)	84
<i>Requirements for Concentration in Biology (Medical Technology)</i>	84
GSA 101a-5, 201-8	(13)
GSD 114-9	(9)
Biology 301-11, 302-20, 303a-4, 390-1	36
Medical Technology (one year at an approved medical technology school)	48
<i>Secondary Concentration</i>	27
Chemistry 111-15, 235-5, 305-10	(3) + 27
<i>Total</i>	195

Upon successful completion of one year of study and laboratory work at a school of medical technology approved by the Science and Technology Division, the student will usually be credited with 48 hours towards the Bachelor of Science degree (of which 16 will count towards the 64 hours of senior college credit needed for graduation from Southern Illinois University).

Schools of medical technology approved by the Council on Medical Education and Hospitals of the American Medical Association require for entrance the completion of three years (135 quarter hours) from an accredited college or university, with credit for 24 hours in biological science and 24 in chemistry. Students successfully completing the year of study and laboratory training at an approved school of medical technology are eligible to take the national registry examination conducted by the Board of Registry of Medical Technology for certification as a registered technologist MT(ASCP).

*Secondary Concentration*

The minimum biology secondary concentration is 27 hours including at least one quarter of Biology 302.

**Business Administration**

The academic program in business administration is designed to anticipate the needs of students who will graduate in the early 1970's and whose business careers may extend well beyond the year 2000. We assume that, as business practices and technology change, and as individual business responsibilities grow or alter, our former students will need to adapt continuously to the demands and opportunities of the dynamic fourth quarter of the 20th century. This process of continuing adjustment will be accomplished in many ways: on-the-job training, non-degree courses offered within business and by external agencies, formal academic programs such as those leading to the Master of Business Administration degree, and do-it-yourself programs of professional development. As Southern Illinois University's graduates advance in their careers, all of the foregoing modes of continuing education will be increasingly needed and used.



*Bachelor of Science Degree, BUSINESS DIVISION*

Careful planning will be needed if the student is to meet all of the degree requirements in General Studies, the business division core, and an area of specialization. The Business Division maintains a special advisory staff to assist students in planning their programs.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
<i>Requirements for Concentration in Business Administration</i>	80
Accounting 230, 231, 330	12
Business Communications 390	4
Economics 200, 201, 300	12
Finance 320	4
General Business Administration 140, 340, 341, 440, 441	20
Management Operating Systems 380, 381	8
Marketing 370, 371	8
Quantitative Methods 210, 211, 310	12
One of the specializations below	16 or 28
PROFESSIONAL ACCOUNTING	(28)
Accounting 331, (341 in lieu of 330), 351-8, 442, 453, 456	24
General Business Administration 342	4
GENERAL ACCOUNTING	(16)
Accounting (341 in lieu of 330), 351-8, 442, 453	16
ECONOMICS	(16)
Economics 440, 441, and electives	16
FINANCE	(16)
Finance 420, 423, 424, 425	16
GENERAL BUSINESS ADMINISTRATION	(16)
(To be worked out on an individual basis)	
MARKETING	(16)
Marketing 470, 473, and two of 452, 471, 472	16
MANAGEMENT SYSTEMS	(16)
Accounting 341	4
Management Operating Systems 380	4
Marketing 452	4
Production 460	4
PRODUCTION	(16)
Production 460, 461, 462, 463	16
PERSONNEL MANAGEMENT AND INDUSTRIAL RELATIONS	(16)
Personnel and Industrial Relations 450, 451, 452, 453	16
<i>Electives</i>	12 or 0
<i>Total</i>	192

*General Studies.* As part of the program of General Studies, business students are asked to take certain foundation subjects of great significance to their later work in the business program. Particularly relevant are the courses in economics and sociology, in psychology and anthropology, in college algebra and statistics, and in oral and written communication. Concurrent with their lower division (freshman and sophomore) General Studies work, business students will also take carefully selected basic courses in business offered by the division.

*Core Curriculum.* The mission of the core curriculum in business is threefold. First, it aims at providing students with a comprehensive understanding of industrial dynamics, structure of industry, business organization, and managerial technique. Second, it seeks specifically to develop the student's managerial capabilities in the three critical areas—analysis, communication, and human relations. Third, it aims at re-enforcing both the motivation and the capacity for life-long professional growth and development.

*Specialization and Electives.* The student's choice of a specialization and his use of electives will reflect his preference as to a point of entry into business. We say *point of entry* rather than *career* because well over half of our students are expected to shift fields of specialization within a few years after graduation. That is to say, students whose point of entry is field *x* may soon find themselves working in field *y*. Nevertheless, if a student aspires to a specialization such as professional accounting, he will be advised to devote both his specialization and his elective course work to subjects relevant to that objective.

Similarly, a student interested in management systems may take the four-course sequence in that area and may, if he chooses, use his elective courses to bolster his strength either in business subjects or in a related field, such as mathematics or the computer sciences. Alternatively, electives may be used to expand cultural or other nonprofessional interests. Students choosing other areas of specialization such as finance, marketing, or personnel and industrial relations may use their electives in like fashion.

Still another use of the time allocated to "specialization" and "electives" is afforded by the general business administration option. A student choosing this avenue may substitute (for a specialization in business) 16 or more hours in an approved sequence in a non-business area, such as economics or sociology or mathematics. Thus a student who desires to acquire depth and breadth in some specific non-business area of study may do so by applying his choices in "General Studies," in "Specialization," and in "Electives" to that end. One purpose of this option is to allow a student who anticipates graduate study in business to receive a "liberal" undergraduate education and yet to qualify for a Master of Business Administration degree (MBA) in one additional year of study instead of the two-year program often required of non-business baccalaureates. A second objective is to provide additional discretion to students who, while desiring to prepare for careers in business, are uncertain as to an exact point of entry. A third group who may choose this option are pre-law students who anticipate engaging in business-related law practice. Finally, there is an increasing demand in business for graduates who have combined a sound program in business with depth in some related area such as those cited.

*In summary.* The program in business is designed to facilitate both entry into business and long-term professional growth. During his business career we expect a former student to find that, because of changing business practices and growing responsibilities, less and less of his course work in specific business subjects is directly relevant to his needs. As this occurs, he will draw more and more upon the generalized portion of his program at Southern Illinois University, supplemented and



extended by his work experience, by his continuing program of self-instruction, and by post-graduate professional-development programs of the types previously indicated.

#### ACCOUNTING

The operation of a business and its financial condition are of interest to its owners, to its employees, to its creditors, to various governmental bodies, and to the public. Accounting is the means by which the transactions of a business are analyzed, recorded, presented, and interpreted to and/or for the various interested groups. In many instances such data is attested by a particular type of professional accountant, the licensed certified public accountant (C.P.A.).

The skills of the accountant are not easily acquired; serious and thorough study is necessary. The breadth and depth of this study depend somewhat upon the post-graduate objectives of an individual student. Differences in student objectives are recognized by two specializations in accounting, either of which will satisfy degree requirements for graduation.

The professional accounting program is recommended for students who wish to meet the educational requirements for taking the C.P.A. examination in Missouri, Illinois, and other states; for governmental career positions in accounting; and the expectations of many public accounting and private business firms. Those who aspire to become a C.P.A. (Certified Public Accountant) should familiarize themselves with the laws and regulations covering the certification of public accountants in the state of their choice. The regulations for the State of Illinois are published by the Committee of Accountancy, University of Illinois, Urbana, Illinois.

The general accounting program is recommended for those students who intend to continue the study of accounting in graduate school, or for those students who desire a more thorough coverage of some other area or areas as an undergraduate.

#### FINANCE

Various career opportunities are available to students who choose to specialize in finance. In broad terms they are corporate finance, investments, commercial banking, and insurance. Within each of these areas there are many sub-categories of professional expertise. Depending upon the student's preference within finance, additional work in related areas such as accounting, economics, or management systems is highly recommended.

An objective of the courses offered in the area of finance is to provide the student with a comprehensive introduction (a) to the functions of corporate financial officers, (b) to the fields of investment policy and investment analysis, (c) to the special characteristics of the major types of financial intermediaries. In addition, they provide knowledge of certain principles of financial analysis and decision making and practice in the application of these principles to specific cases, thereby developing analytical ability and fuller comprehension of the nature of financial problems as encountered in business and industry.

#### GENERAL BUSINESS ADMINISTRATION

The general business administration courses help the student to understand the foundations of our market-oriented economy and the role of



business enterprise therein; and provide a firm foundation in the area of theory, the external environment of a business or an industry (the scientific and technological, economic and market, legal and political, goal-setting, and attitudinal environments within which business institutes operate), and the decision-making processes involved in the choice of particular business policies and practices. The overall goal is to enhance understanding the internal and external factors affecting the operation of business firms and skill in the management of essential entrepreneurial resources—human, financial, physical, and technical.

This area of specialization provides the student with an opportunity to obtain further depth of study in related subjects offered by the other divisions. Among the topical areas to which this option is applicable are applied science, economics, foreign languages, government, mathematics, psychology, and sociology. Other areas may be approved upon application to the chairman.

In each instance, the student will pursue a sequence of courses amounting to at least 16 quarter hours in the area of his choice. The particular sequence must be approved in advance by the chairman.

#### MARKETING

Marketing, which includes all activities concerned with determining and satisfying desires and needs of individual and institutional consumers, is a major function in all forms of business enterprise. Marketing knowledge and concepts provide the tools for developing and distributing goods and services in today's dynamic economy and tomorrow's as well. Courses are offered in the areas of consumer behavior, advertising, marketing management, distribution, sales administration, and market research.

#### MANAGEMENT SYSTEMS—QUANTITATIVE METHODS—PRODUCTION

All three are concerned with (a) the design of information and decision-making systems for business, governmental, and other institutional requirements, (b) the application of appropriate techniques of quantitative analysis to administrative problems, (c) the utilization of EDP (electronic data processing or computer) capability in management information and decision-making systems. This includes the study of techniques often described under the heading of operations research. Three distinct areas of study are recognized within this broad field: management operating systems, quantitative methods, and production and operations management. This specialization is designated management systems.

*Management Systems.* The systems concept of organization within business and government is receiving many benefits from computer applications. Many new career opportunities are arising as a result of the rapid growth of computer usage. Students with an understanding of systems, computers, and quantitative techniques will be equipped to identify and solve certain types of problems in the management of business or government.

*Quantitative Methods.* The courses introduce students to modern mathematical and statistical concepts and methods as applied to business activity. A major objective is to develop skill in the formulation of logical models useful in making business decisions under conditions of both certainty and uncertainty. An additional goal is to develop means of measur-

ing and evaluating the performance of business and other goal-seeking institutions in whole and in part. Linear and dynamic programming, inventory models, simulation, and statistical decision theory are some of the specific methods of analysis studied.

*Production.* The objective is to assist the student who is interested in a career in production or operations management to find a proper point of entry into his chosen field, and to perform competently thereafter. Because of the rapidly changing technological base of the production and operations functions, emphasis is upon tools and concepts of a fairly general character and lasting relevance.

#### PRODUCTION

The production function is responsible for creating the goods and services which are inputs to the marketing function of a firm. Viewed in this manner, a distinct production function is to be found in a variety of business activities. In a major airline, for example, the production function often includes aircraft scheduling, operation, and maintenance and is headed by a vice-president for operations. The head of an analogous function in a banking firm may be titled cashier or comptroller. In manufacturing firms the title of the senior production officer ranges from vice-president for manufacturing to plant manager. In each industry there are conventional lines of advancement running from points of entry into a firm to these positions. Whatever the type of business, the fundamental responsibility of the production function is the same: to insure that the desired goods or services are produced or made available on time, at budgeted cost, in the proper quantities, and within the desired span of quality characteristics.

#### PERSONNEL AND INDUSTRIAL RELATIONS

Personnel administration as a distinct professional field and organizational entity is now well accepted in business, as is industrial relations. In nearly every firm of substantial size are found staff specialists in these areas. There are attractive employment opportunities for both young men and young women in these fields.

The specialization of personnel management and industrial relations is concerned with the responsibilities and activities of both the director of the personnel function and the director of the industrial relations function within commercial, industrial, and governmental institutions. Students are introduced to the specialized routines and procedures of these fields as well as to the many legislative enactments which affect a management's relations with its employees and with organized labor.

The specialization provides opportunities to relate prior work in psychology, sociology, management operating systems, organization behavior, decision making, organization problems, and other areas to administrative problems in the field of personnel management and industrial relations.

#### Business Education

The program in business education is divided into two areas of specialization, business-teacher education and secretarial and office administration, each of which leads to the Bachelor of Science degree. The same core program is required for each of these areas. Candidates for business-teacher



education choose one of two possible options, skill development or basic business preparation.

*Bachelor of Science Degree, EDUCATION DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Business Education Core</i> . . . . .	40
GSB 103-8, 201-8, GSD 114a,d . . . . .	(25)
Accounting 230 . . . . .	4
Business Communications 390 . . . . .	4
Economics 200, 201 . . . . .	8
General Business Administration 140, 340, 341, 440 . . . . .	16
Management Operating Systems 380 . . . . .	4
Marketing 370 . . . . .	4
<i>Specialization in Business-Teacher Education</i> . . . . .	68
SKILL DEVELOPMENT	
Business Education 304, 324a, 327, 341, 351, 426, 427 . . . . .	27
Business Education 405 and one of 403, 404, 406, 408 . . . . .	7
Counselor Education 305 . . . . .	4
Educational Administration 355 . . . . .	4
Secondary Education 315, 352b . . . . .	16
Education electives . . . . .	8
Electives . . . . .	2
BASIC BUSINESS PREPARATION	
Accounting 231, 351a . . . . .	8
Business Education 351 . . . . .	4
Economics 300 . . . . .	4
General Business Administration 342 <sup>1</sup> . . . . .	4
Marketing 371 <sup>1</sup> . . . . .	4
Business Education and one of 403, 404, 406, or 408 . . . . .	7
Counselor Education 305 . . . . .	4
Educational Administration 355 . . . . .	4
Secondary Education 315, 352b . . . . .	16
Education electives . . . . .	8
Electives . . . . .	5
Total . . . . .	192

*Bachelor of Science, BUSINESS DIVISION*

<i>General Studies Requirements</i> . . . . .	84
<i>Business Education Core</i> (See above) . . . . .	40
<i>Specialization in Secretarial and Office Administration</i> . . . . .	68
Accounting 231, 330 . . . . .	8
Business Education 341, 426, 427 . . . . .	12
Business Education 304, 324a,b, 327 (or electives in Business Division subjects) . . . . .	15
Finance 320 . . . . .	4
General Business Administration 342, Personnel and Industrial Relations 450 . . . . .	8
Electives . . . . .	21
Total . . . . .	192

<sup>1</sup> To prepare for Business Mathematics, the student takes Quantitative Methods 210 and 211 instead of General Business Administration 342 and Marketing 371.



Chemistry

A student considering a concentration in chemistry is urged to consult with a representative of the chemistry faculty. In general, one who desires to work or enter graduate school in chemistry must take 341 and 461 and either 336 or 432a or b. One who desires training as a professional chemist as specified by the American Chemical Society must take 341, 411, 432, and 461 (in junior year) plus three advanced courses (one may be mathematics or physics), include 225 hours of lab after 341, and elect German.

Bachelor of Arts Degree, SCIENCE AND TECHNOLOGY DIVISION

General Studies Requirements (See Chapter 3. Waive GSA-3.)	84
Requirements for Concentration in Chemistry .....	71-91
GSD FL .....	(9)
Chemistry 111-15, 235-5, 375-3 .....	(3) + 20
Chemistry 305-10 or 341-15, 460-5 or 461-12 .....	15-27
Chemistry electives .....	10-20
Mathematics 150-8, 252-8 .....	16
Physics 211-15 .....	(5) + 10
Secondary Concentration .....	27
Electives (mathematics or physics) .....	10-0
Total .....	192-202

Bachelor of Science Degree, EDUCATION DIVISION

A 36-hour concentration for students who elect two secondary concentrations must include Chemistry 111-15, 235-5, 305-10, 375-2, and 460-5. Those who elect only one secondary concentration must add 12 hours including 375-1.

Secondary Concentration

A secondary concentration in chemistry requires 111-15 and at least 12 hours in courses chosen from 235, 305-10 or 341-15, 311, 336.

Comparative Literature

Secondary Concentration

The secondary concentration in comparative literature is 37 hours, prescribed as follows: 300-12; 310a,b,c; second year of foreign language on the college level; and 4 hours of electives from 310c,d, Philosophy 360 or advanced foreign language study.

Economics

Courses in economics help students to understand the principles concerning the production and distribution of goods and services. Important and often controversial issues, such as national income, unemployment, inflation, labor unions, monopoly, tariffs, and government spending are studied and analyzed.

The study of economics prepares an individual for a position in private industry, government service, or teaching. Business and govern-

mental agencies employ economists in management training programs, research, and administrative positions. Economics also provides necessary background understanding and evaluation of state and national policy in many fields, among them being taxation, fiscal and monetary policy, anti-trust activities, and welfare legislation. Students choosing economics as a field of concentration pursue a core program followed by more specialized study in such fields as money and banking, industrial relations, finance, international trade. The sequence of courses, including those in related areas such as business, psychology, mathematics, and government is planned in cooperation with an adviser from the economics faculty.

Four distinct programs permit concentration or specialization in economics. The Business Division offers the Bachelor of Science degree with a concentration in business administration and a specialization in economics and a Bachelor of Science degree with a concentration in economics. The Social Sciences Division offers a Bachelor of Arts degree with a concentration in economics. The Education Division offers a Bachelor of Science degree with a concentration in economics.

*Bachelor of Science Degree, BUSINESS DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Economics</i> . . . . .	69
GSB 311-3 . . . . .	(3)
GSD 114a, 114d . . . . .	(9)
Accounting 230, 231, 330 . . . . .	12
Economics 200, 201, 300 . . . . .	12
Economics 440, 441 . . . . .	8
Economics electives . . . . .	17
Quantitative Methods <sup>1</sup> 210, 211, 310 . . . . .	12
Courses in finance, marketing, or management systems . . . . .	8
<i>Secondary Concentration</i> . . . . .	24
Students are asked to choose a secondary concentration in an area related to their professional or career objectives. Areas which have prior approval are government, mathematics, and sociology. Other areas may be approved at the discretion of the faculty chairman.	
<i>Electives</i> . . . . .	15
<i>Total</i> . . . . .	192

*Bachelor of Arts Degree, SOCIAL SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Economics</i> . . . . .	54
GSB 311-3 . . . . .	3
GSD 114a-5, 114d-4, FL . . . . .	(9) + 9
Economics 200, 201, 300 . . . . .	12
Economics 440, 441, 450, and electives . . . . .	30
<i>Secondary Concentration</i> . . . . .	24
Students are asked to choose a secondary concentration in an area related to their professional or career objectives. Areas which have prior approval are government, mathematics, and sociology. Other areas may be approved at the discretion of the faculty chairman.	

<sup>1</sup> Requirement in quantitative methods may be met by Mathematics 150-8, 252-8, 480-10, and 483-4; in this case, these courses in mathematics will constitute a secondary concentration.



<i>Electives</i> .....	30
<i>Total</i> .....	192

### *Bachelor of Science Degree, EDUCATION DIVISION*

For this degree the following courses constitute a 48-hour concentration in economics: GSB 103b, 311, GSD 114d, Economics 200, 201, 300, 440, 441, plus 17 hours of electives in economics to meet the minimum of 48 hours. The electives will be chosen in consultation with an economics faculty adviser.

The following courses constitute a 36-hour concentration in economics: GSB 103b, 311, GSD 114d, Economics 200, 201, 300, 440, 441, plus 5 hours of electives in economics to meet the minimum of 36 hours.

### *Secondary Concentration*

Candidates for the Bachelor of Science degree, Education Division, may choose a secondary concentration in economics. Requirements are GSB 103b, 311, GSD 114d, Economics 200, 201, 300, 440, 441, for a total of 31 hours.

### **Elementary Education**

Following are the requirements for the Bachelor of Science degree with concentration in elementary education and meeting the minimum requirements for a Standard Elementary School Certificate on either the early childhood level or the elementary level.

### *Bachelor of Science Degree, EDUCATION DIVISION*

A student in this course of study must (1) satisfy the general requirements of the University and of the Education Division, (2) complete the hours specified below in each of the six listed categories, and (3) meet all requirements for student teaching and should study the section in his bulletin which lists such requirements.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) ....	84
<i>Requirements for Concentration in Elementary Education</i> .....	70
GSB 201-4, 203a-4, 300a-3, 331-3 .....	14
Area of interest <sup>1</sup> .....	12
<i>Professional Courses (44 hours)</i>	
Counselor Education 305 .....	4
Educational Administration 355 .....	4
Elementary Education 314-4, 337-4, 351-8 to 16, 415-4 ...	20-28
Instructional Materials 417 .....	4
Electives: Recommended—Counselor Education 422-4; Elementary Education 203-3, 413-4, 437-4, 442-4; Psychology 301-4 .....	12-4
<i>Electives</i> .....	38
<i>Total</i> .....	192

### *Early Childhood Education*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) ....	84
<i>Requirements for Concentration in Early Childhood Education</i> ....	70
GSB 201-4, 203a-4, 300a-3, 331-3 .....	14



Area of interest <sup>1</sup> .....	12
Professional Courses (44 hours)	
Counselor Education 305 .....	4
Educational Administration 355 .....	4
Elementary Education 315-4, 316-4, 337-4, 351-8 to 16, 415-4 .....	24-32
Instructional Materials 417 .....	4
Recommended electives: Counselor Education 422-4, Elementary Education 203-3, 413-4, 437-4, 442-4, Psychology 301-4, Special Education 428-4 .....	8-0
Electives .....	38
Total .....	192

Engineering (preprofessional)

The first two years of engineering curricula involve common mathematics, physics, and chemistry courses that serve as the basis on which the engineering courses can be built. In addition, General Studies courses are required for the prospective engineer as they are for all university students. The Edwardsville Campus provides a pre-engineering curriculum covering this material so that a student, on completion, may transfer to an engineering school and secure a degree with minimum loss of time. This curriculum is substantially equivalent to that offered at the Carbon-dale Campus and transfer to that campus for completion of the degree is possible.

General Studies Requirements (See Chapter 3.) .....	55
Requirements for Pre-Engineering .....	49
Applied Science 101-6 .....	6
Chemistry 111b,c-10 .....	(3) + 7
Engineering 260-9 .....	9
Mathematics 150-8, 225-4, 252-8 .....	(3) + 17
Physics 211-15 .....	(5) + 10
Total .....	104

English

Bachelor of Arts Degree, HUMANITIES DIVISION

General Studies Requirements (See Chapter 3. Waive GSC-3.) ..	84
Requirements for Concentration in English .....	53
GSD FL .....	(9)
English 300, 302-12, 309-8, 365, 499-2 .....	30
English electives numbered above 299 (485, 486, 487 do not count.) .....	14
Foreign language courses to complete two years college level work in a language .....	9
Secondary Concentration .....	24-27
Electives .....	31-28
Total .....	192

<sup>1</sup> A student shall select an area in which he obtains at least 12 hours in addition to the above requirements. These areas are applied arts; fine arts; health, recreation, and physical education; instructional materials; language arts; mathematics; science; social science.

*Bachelor of Science Degree, EDUCATION DIVISION**Requirements for Concentration in English* ..... 48

All courses required above for the concentration except a foreign language ..... 44

English 485 ..... 4

The grade of C or above is required in all English courses and General Studies Areas C and D.

*Secondary Concentration*

A 24-hour secondary concentration in English consists of 300, 302-12, 309-8.

**Foreign Languages***Bachelor of Arts Degree, HUMANITIES DIVISION**General Studies Requirements* (See Chapter 3. Waive GSC-3.) .. 84*Requirements for Concentration in Foreign Languages* ..... 48

A minimum of 42 hours beyond the 100-level courses, including the seminar in the field of concentration (French, Spanish, or German). ..... 42

English and history (one course in each area above 299 related to the concentration) ..... 6

*Secondary Concentration* ..... 24-27*Electives* ..... 36-33*Total* ..... 192*Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, the requirements for concentration in Foreign Languages are 38 hours (exclusive of General Studies courses and elementary education concentration courses) in a language, plus one English and one history course numbered above 299.

*Secondary Concentration*

A secondary concentration consists of 24 hours (exclusive of General Studies) in a language.

**Geography**

In the field of geography, the student may work toward either a Bachelor of Science degree or a Bachelor of Arts degree depending upon his objective:

1. Bachelor of Science—for preparation to teach geography and earth science in the elementary or secondary schools, or (with further preparation) in the junior college; or as a part of preparation to teach either social science or physical science in the elementary or secondary schools.

2. Bachelor of Arts—for a thorough knowledge of geography, in preparation for civil service appointment as a geographer, or for demands of private organizations requiring the services of geographers, meteorologists, cartographers, or planners.

A broad background in other fields is of great importance to a geographer. Thus, it is recommended that geography students hold their hours of geography to the minimum number required and use their elective hours to take work in other areas. Students interested in physical geography should consider work in geology, botany, zoology, plant industries, forestry, and physics. Students interested in economic geography can profit from work in economics, agricultural industries, marketing, and transportation. Students specializing in cultural geography will find courses in sociology, anthropology, community development, history, and government particularly useful. Students interested in the geography of a particular area of the world are encouraged to take courses on the area in other disciplines.

Quantitative methods have become an essential tool used by geographers. Thus, those with a concentration in geography are strongly urged to take work in statistics. GSD 114d provides an introduction, while students interested in more complete preparation may take Mathematics 410a,b, and c.

Students working for a secondary concentration in geography or taking the social studies field concentration in education must take Geography 304, 306, and 308.

*Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Geography</i> . . . . .	30
GSD FL . . . . .	(9)
GSA 110a,b, 330, GSB 203b . . . . .	(15)
Geography—one of the following specializations: . . . . .	30
Cultural geography, economic geography, earth science: 304, 306, 308, 310, and electives.	
Planning: 304, 306, 308, 310a, 404c, 470a, 471, and electives.	
Cartography: 304, 306, 308, 310, 416a,b, 417, and electives.	
<i>Secondary Concentration</i> . . . . .	27
Secondary concentration must be mathematics if the specialization is cartography.	
<i>Electives</i> . . . . .	51
<i>Total</i> . . . . .	192

The Bachelor of Arts degree cartography specialty may be earned by a work-study plan which permits students to work part time at the St. Louis Aeronautical Chart and Information Center. The General Studies advisement office or the geography staff has complete information on this plan. GSA 110a,b, 330, and GSB 203b are required in the above specializations; one additional General Studies course in geography may be counted.

*Bachelor of Science Degree, EDUCATION DIVISION*

In addition to the General Studies Requirements and the Education Division Requirements, a geography specialization must include the following courses, GSA 110a,b, 330, GSB 302b, Geography 304, 306, 308, 310a, and additional courses to complete 45 or 36 hours in geography (depending on whether the student has one or two secondary concentrations).



*Secondary Concentration*

A secondary concentration in geography consists of 27 hours and must include 304, 306, and 308. Fifteen hours may be counted from the following: GSA 110a,b, 330, 331, GSB 203b, and 354.

**Government**

A concentration in government is recommended for persons planning to teach civics or government courses, and for those planning to qualify for the study of law or for the public service.

*Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Government</i> . . . . .	45
GSD FL . . . . .	(9)
A minimum of 45 hours, including 200 and GSB 203a, and at least 3 hours in each of the areas of specialization listed below.	
<i>Secondary Concentration</i> . . . . .	27
<i>Electives</i> . . . . .	36
<i>Total</i> . . . . .	192

*Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, the requirements for concentration in government total 45 or 36 hours in government, including 200 and GSB 203a, depending on whether the student has one secondary concentration or two. At least 3 hours (but no more than 20 hours) should be taken in each of the areas of specialization listed below.

*Areas of Specialization*

- American government and politics: 340, 379, 380, 406, 415, 420, 435.
- Comparative government: 390, 450, 453, 456, 457, 458.
- International relations: 370, 371, 373, 451, 472, GSB 345.
- Political theory: 484, 487, GSB 359, 385.
- Public administration: 360, 361, 440, 461, 465, 470, 473, GSB 318.
- Public law: 315, 495.

*Secondary Concentration*

A secondary concentration is 27 hours and must include 200 and GSB 203a and at least one course in three of the six areas of specialization listed above.

**Health, Recreation, and Physical Education**

Programs leading to teacher certification are available in health education and physical education. Such programs can prepare students for either the secondary level or for all levels (K through 12). Program in health, recreation, and physical education are also available through the recommendation of the student's adviser.

Generally speaking, 48 hours are required for a major concentration and 27 hours for the minor. From 12 to 16 hours within the 48 or 27

should be activity hours, reasonably distributed among the individual, team, rhythmical, and aquatic classifications. The remaining theory hours will be determined by the student and his adviser.

The student's course of study will be worked out with the adviser.	
<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . . .	84
<i>Requirements for Concentration in Health, Recreation, and Physical Education</i> . . . . .	92
GSE 101d-1, 102-1, 104-1 per activity, 111d-1, 112-1, 114-1 per activity, 115-3 (1,1,1), 116-1 per activity, 117-1 per activity, 118-1 per activity, 201-3 . . . . .	12-16
Remaining hours to be chosen from Health, Recreation, and Physical Education courses listed in Chapter 8 . . . . .	36-32
<i>Professional Courses</i> (44 hours)	
Counselor Education 305 . . . . .	4
Educational Administration 355 . . . . .	4
Elementary Education 314-4, 337-4, 351-8 to 16, 415-4 . . .	20-28
Instructional Methods 417 . . . . .	4
Electives: Recommended—Counselor Education 422-4; Elementary Education 203-3, 413-4, 437-4, 442-4; Psychology 301-4 . . . . .	12-4
<i>Electives</i> . . . . .	16
<i>Total</i> . . . . .	192

History

Students who intend to concentrate in history should consult with a member of the history faculty at the time of registration to plan their courses of study.

*Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in History</i> . . . . .	37
GSB 101b,c, GSB 300-9, GSD FL . . . . . (21) +	3
History 100, 452 . . . . .	6
History electives above 299 (Anthropology 304 may be counted) to complete 45 hours (including GSB 101b,c, GSB 300-9) distributed as evenly as possible among Ancient-Medieval-Asiatic, Modern European, and American history	24
Philosophy 200 . . . . .	4
<i>Secondary Concentration</i> . . . . .	27
<i>Electives</i> . . . . .	44
<i>Total</i> . . . . .	192

*Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, the requirements for concentration in history are 48 hours or 36 hours depending on whether the student has one secondary concentration or two. Requirements for either concentration are 100, 452, GSB 101b,c, GSB 300-9, and Philosophy 200. The remaining portion of the concentration must be on the 300 and 400 levels, and care should be taken to distribute the work as evenly as possible among the three fields of Ancient-Medieval-Asiatic, Modern European, and American history.



### Secondary Concentration

Twenty-seven hours are required for a secondary concentration in history and must include 100, GSB 101b,c, and GSB 300-9. Anthropology 304 may be counted for a history concentration.

### Instructional Materials

Courses in the utilization and administration of teaching materials are designed to train both audio-visual co-ordinators and librarians to become fully qualified instructional materials specialists who can administer all teaching materials.

The Education Division offers a second teaching field at the secondary level which provides a concentration of audio-visual practices and techniques. This program prepares teachers for professional service in instructional materials centers.

The required courses are Elementary Education 413-4; Instructional Materials 417-4, 445-4, 457-4, 458-4, 470-4; Secondary Education 440-4.

### Journalism

#### Secondary Concentration

A secondary concentration in journalism consists of 24 hours, including 103-3, 201-3, 202-3, 340-3, and English 300-4 and 392-3. See also Professional Writing.

### Mathematics

Anyone considering a concentration in mathematics is urged to consult with a representative of the mathematics faculty.

#### *Bachelor of Arts Degree, SCIENCE AND TECHNOLOGY DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . . .	84
<i>Requirements for Concentration in Mathematics</i> . . . . .	55
GSD FL (French, German, or Russian recommended) . . . . .	(9)
Chemistry 111a or b-5 (can satisfy GSA 101c-3) . . . . .	(3) + 2
Mathematics below and including 252b . . . . .	16-25
Mathematics 320 . . . . .	6
Mathematics 452-6 or 480-7 or two geometry courses above 299 . . . . .	6-8
Mathematics (additional courses above 299 to total 24 hours; total in mathematics 48) . . . . .	10-20
Physics 211a-5 and 211b or c-5 (can satisfy GSA 101a-5) . . . . .	(5) + 5
<i>Secondary Concentration</i> . . . . .	27
<i>Electives</i> . . . . .	26
Mathematics 311-3 is recommended for prospective secondary teachers.	
<i>Total</i> . . . . .	192

#### *Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, a student with one secondary concentration has the re-



quirements for concentration in mathematics listed above, including 311, but exclusive of foreign language.

Secondary Concentration

A secondary concentration in mathematics consists of 27 hours and includes courses through 150b and at least 10 hours selected from courses above 250. Mathematics 320 is recommended for prospective teachers. (The requirement for teacher certification in mathematics is 30 hours.)

Music

During the academic year distinguished musicians join the faculty and students for workshops, seminars, and performances. The list of musicians who have appeared includes Sigurd Rascher, saxophone; Leonard Smith, cornet; Sidney Foster, piano; the Ritter-Allen Duo (violin-piano); Reginald Kell, clarinet; John Barrows and Philip Farkas, French horn; Vincent Abato, clarinet-saxophone; and Paul Price, percussion.

The requirements for entrance and graduation as set forth in this bulletin are in accordance with the published regulations of the National Association of Schools of Music, of which this Faculty of Music is a member. The Bachelor of Music degree with specialization in performance, or in music education, and the Bachelor of Arts degree with concentration in music are offered.

Detailed requirements in music are stated in a handbook provided by the music faculty.

Bachelor of Arts Degree, FINE ARTS DIVISION

These courses are for students who wish to specialize in music as part of their general cultural education. They may also be taken as background for advanced studies in music.

General Studies Requirements (See Chapter 3. Waive GSC-3.)	84
Requirements for Concentration in Music	57
GSC 156, GSD FL	(14)
Music 105-12, 205-9, 357-9, and electives	39
Music performance major (2 hours per quarter)	12
Music major ensemble	6
Secondary Concentration	24
Electives	27
Total	192

Bachelor of Music Degree, FINE ARTS DIVISION  
Music Performance

General Studies Requirements (See Chapter 3. Waive GSC-3.)	84
Requirements for Concentration in Music	120
Music 105-12, 205-9, 309a, 312a, 318a, 326a, 442a	36
Music 357-9	9
Music, private applied (major instrument)	48
Music, major ensemble (1 hour per quarter)	12
Music, class piano or secondary instrument/voice	6
Music, electives	9
Total	204

Students with a specialization in music performance include one year each of French and German. Students in performance specialization other than voice and those with probable future specializations in music theory-composition, music history-literature, or church music, should consult with their adviser as to the sequence to be followed in languages.

### *Music Education*

One year of French or German is recommended for the student with a choral emphasis in music education.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.)	84
<i>Requirements for Concentration in Music</i> .....	85-90
Music 105-12, 205-9, 309a-3, 318a,b-6, 326a-3 .....	33
Music 357-9 .....	9
Music, private applied (major instrument) .....	24
Music, major ensemble (1 hour per quarter) .....	12
Music, class piano and/or secondary instrument/voice ..	7-12
<i>Professional Education Requirements</i> .....	33
Educational Administration 355 .....	4
Music 301-9 .....	9
Counselor Education 305 .....	4
Elementary Education 351e and Secondary Education 352d .....	12
Before a student is approved for student teaching, he must satisfy the course of study and proficiency prerequisites as established by the music faculty.	
Elective education course to be selected with the music adviser .....	4
<i>Total</i> .....	202-207

### *Secondary Concentration*

A secondary concentration in music includes 105-12, 2 hours of credit per quarter for three quarters in performance major, 6 hours in a major ensemble, GSC 156, 357a. Total: 32 hours.

### **Nursing**

Learning experiences in nursing are approached from the problem solving point of view. Comprehensive health plans and care emerge from applications of knowledge and skill gained from the natural, biological, and social sciences and communications courses. The student develops proficiency in the nurse's role as a teacher, working with patients, families, health teams, and other individuals and groups interested in health. Emphasis is placed on the need for responsible leadership in nursing. The student is introduced to the health team concept, first as a member, later as a leader in the nurse team, and then as a participant in the inter-professional health planning for care and rehabilitation of individuals in society.

### *Bachelor of Science Degree, DEPARTMENT OF NURSING*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
Substitute Chemistry 110-4 for GSA 101c-3.	
<i>Requirements for Concentration in Nursing</i> .....	108-111

Biology 310-2, 311-5 .....	7
Chemistry 110-4, 240-4 .....	(4) + 4
Nursing 210-4, 300-4, 301a-8, 301b-8, 325-8, 355-4, 363-22, 370-4, 375-8, 381-3, 382-8, 385-1-4 .....	80-83
Philosophy 302-4 .....	4
Psychology 301-4, 465-4 .....	8
Sociology 340-4 .....	4
Total .....	192-195

All students who have been accepted in the Department of Nursing must have advisement from the nurse faculty members and must make arrangements with the Department of Nursing three quarters in advance of the time they wish to take each clinical course in nursing.

Philosophy

Bachelor of Arts Degree, HUMANITIES DIVISION

General Studies Requirements (See Chapter 3. Waive GSC-3.) ..	84
Requirements for Concentration in Philosophy .....	51
Foreign Languages (equivalent of 2 years) .....	(9) + 9
Philosophy 381-12 and 490 .....	14-16
Philosophy electives, including at least one course in each of these categories: epistemology and value theory. GSA (or C) 363-6, GSC 375-6, and 3 hours of GSC 360-6 may be counted among these electives .....	28-26
Secondary Concentration .....	24-27
Electives .....	33-30
Total .....	192

Secondary Concentration

A secondary concentration consists of 24 hours (exclusive of lower level General Studies), including Philosophy 381-12.

Physics

Bachelor of Arts Degree, SCIENCE AND TECHNOLOGY DIVISION

General Studies Requirements (See Chapter 3. Waive GSA-3.) ..	84
Requirements for Concentration in Physics .....	79
GSD FL .....	(9)
Chemistry 111-15 .....	15
Mathematics 150-8, 252-8 .....	16
Physics 211-12, 212-3, 300a-4, 300b-1, 301-8, 305-8 .....	36
Physics electives, numbered 299 or above, including 4 hours lab, to complete 48 hours .....	12
Secondary Concentration .....	11-27
Electives .....	18-2
Total .....	192

Bachelor of Science Degree, EDUCATION DIVISION

For this degree, the requirements for concentration in Physics are listed above, under Bachelor of Arts degree, except that 6 hours in the history



and philosophy of science may be counted toward the physics electives.

A physics concentration for a student with two secondary concentrations must include Physics 211-12, 212-3, 300a-4, 300b-1, and 16 additional approved hours in physics courses above 299.

### *Secondary Concentration*

Includes Physics 211-12, 212-3, 300a-4, 300b-1, and electives numbered 299 or above to total 27 hours.

## **Professional Writing**

### *Bachelor of Arts Degree, HUMANITIES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.)	84
<i>Requirements for Concentration in Professional Writing</i>	85
English 300-4, 390-3, 392-3, 492-4, and 7 approved hours	21
GSC 375-6, Philosophy 342-4, 360-4, 484-4	8
Foreign Language (Intermediate)	9
Journalism 101-3, 102-3, 103-3, 201-3, 202-3, 391-3	18
Approved electives in economics, English, government, history, journalism, sociology, and speech	29
<i>Secondary Concentration</i>	0
<i>Electives</i>	23
<i>Total</i>	192

## **Psychology**

Undergraduate courses in psychology introduce the student to the methods and findings of the scientific study of human behavior. He is given an opportunity to learn what research has shown about how we perceive, learn, and think; how individuals differ from one another; how the personality develops from infancy to maturity; and how interpersonal factors affect human relations in the home, on the job, and in the community.

### *Bachelor of Arts Degree, EDUCATION DIVISION*

For this degree, a concentration requires a minimum of 44 hours in psychology. The primary aim is to provide a broad general education rather than specialized professional training in psychology; a maximum of three courses in any one specialized area of psychology may be included in the 44-hour concentration.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
<i>Requirements for Concentration in Psychology</i>	40
GSB 201c (counts toward minimum of 44 hours in psychology)	(4)
GSD FL	(9)
Psychology 211a, 211b, 311, 312, 313, and 409 (must be taken in order listed)	24
Psychology 301, 303, 305, 307, 320 (any two)	8
Two 400-level psychology courses (Adviser must approve courses before student enrolls therein.)	8
<i>Secondary Concentration</i>	27
<i>Electives</i> (If graduate study is planned, student should include Psychology 314 in his program.)	41
<i>Total</i>	192

*Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, a concentration in psychology requires a minimum of 48 hours in psychology. This course of study is designed for the student who intends to teach, pursue graduate studies in counselor education, school psychology, or in psychology with an educational orientation. Student teaching is required for this degree. A strong second teaching field should be planned in consultation with the secondary education adviser.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Psychology</i> . . . . .	44
GSB 201c (counts toward minimum of 48 hours in psychology) . . . . .	(4)
Psychology 211a,b, 311, 312, or 313, 409 in sequence . . . . .	20
Psychology 301, 303, 305, 307, 320 (any three) . . . . .	12
Psychology 407, 421, 431, 440, 465 (any three) . . . . .	12
<i>Professional Courses</i> . . . . .	32
Counselor Education 305 . . . . .	4
Educational Administration 355 . . . . .	4
Secondary Education 315 . . . . .	4
Secondary Education 352d . . . . .	12-16
Education electives to complete 32 hours . . . . .	8-4
<i>Secondary Concentration</i> (should be planned as a strong second teaching field) . . . . .	27
<i>Electives</i> . . . . .	1
<i>Total</i> . . . . .	192

*Secondary Concentration*

A secondary concentration in psychology consists of 28 hours. Included, in sequence, are GSB 201c, 211a,b, and 311. The additional three courses may be selected from the following: Psychology 301, 303, 305, 307, 320.

**Public Administration and Planning**

Public Administration and Planning is an interdisciplinary concentration which focuses around the problems of public administration in today's society and emphasizes the basic skills and general educational background needed in preparation for a career in public administration and urban and/or regional planning. Numerous opportunities for graduate training exist in all these fields for which this course of study offers adequate preparation. This concentration offers an excellent medium within the Liberal Arts tradition to get an organized view and understanding of some of the major problems confronting contemporary society.

The combination of hours selected depends on the interest and to some degree, the previous training of the student. In some cases selected courses in disciplines other than those suggested may be substituted for the hours recommended. Students should consult with the designated adviser in planning their courses of study.

*Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Public Administration and Planning</i> . . . . .	73



At least 17 hours in government or at least 18 hours in geography are required. If geography (government) is chosen as the area for the minimum course hour requirement, at least 38 hours will be required in government (geography). 470 may be taken for either government or geography credit but not both . . .	55 or 56
Geography 304-4, 306-4, 310-6, 472-4, 470-14 . . . . .	18 or 32
Government 360-4, 361-3, 465-3, 473-3, GSB 318-6, and/ or Government 470-14 . . . . .	19 or 33
Economics 330-4, 431-3 . . . . .	7
<i>Electives</i> . . . . .	35
<i>Total</i> . . . . .	192

### Secondary Education

It is assumed a candidate for the Bachelor of Science degree has made a commitment to the scholarly study of education and to teaching as a career. Secondary education programs include courses in professional education, the teaching fields, and general education. Students should apply to the Education Division for acceptance to a teacher education program no later than the sixth quarter.

A student must pass an examination on the national and state constitution's principles as required by Illinois law or complete either GSB 300a or GSB 203a.

No general requirement in foreign language applies to the Bachelor of Science degree in the Education Division.

#### *Bachelor of Science Degree, EDUCATION DIVISION*

<i>General Studies Requirements</i> (See Chapter 3.) . . . . .	84
GSB 201c or 203a-4, 330a-3, and 331-3 . . . . .	(10)
<i>Professional Courses</i> . . . . .	32
A. Educational Foundations . . . . .	4-8
Educational Administration 355-4. Elective: 431-4	
B. Psychological Background . . . . .	4-8
Counselor Education 305-4. Electives: 422-4, Psychology 303-4.	
C. Curriculum and Instruction . . . . .	4-8
Secondary Education 315-4. (Prerequisites: Counselor Education 305-4, Educational Administration 355-4. Electives: Instructional Materials 417-4, Secondary Education 407-4, 440-4, 487-4, 488-4.	
D. Student Teaching . . . . .	12-16
Secondary Education 352d-8 to 16. (Prerequisite: 315-4.) Elective: 352e-4 to 8 second area of concentration.	
<i>Teaching Fields (Areas of Concentration)</i> Certain General Studies courses may be applied . . . . .	90-75
<i>Electives</i> . . . . .	0-1
<i>Total</i> . . . . .	192

#### *Teaching Fields*

The first teaching field shall be at least 48 hours, with a second teaching field of sufficient hours to meet the minimum preparation for teaching in



the various fields and subjects (the first teaching field and the second teaching field being in different areas), or the student may carry a 36-hour teaching field with two approved second teaching fields. It is the policy of the Education Division that the courses and prerequisites within the first teaching field area be approved by the adviser in the teaching field. Additional elective hours in the first teaching field and the second teaching field are encouraged, with the following subject fields:

A student in the Education Division who is preparing to teach in junior high or high school may select first teaching fields from the following:

Botany	History
Biological Science	Mathematics
Chemistry	Physical Education
English	Physics
Foreign Languages	Psychology
Geography	Sociology
Government	Speech

The second teaching fields shall be at least 27 hours unless specified and may be selected from any of the following:

Art Education (broad teaching field—31 hours.)	Geography
Botany	Government
Biological Science	Instructional Materials (specialist concentration)
Business Teacher Education (broad teaching field)	Mathematics
Chemistry	Physical Education
English	Physics
Foreign Languages	Psychology
	Sociology
	Speech

Broad teaching fields with the specified number of hours may be selected from the following:

Art Education	67
Business Teacher Education	73-77
General Science and Mathematics (junior high school)	84 <sup>1</sup>
Instructional Materials	26 <sup>2</sup>
Language Arts (junior high school)	75 <sup>3</sup>
Social Studies (junior high school)	75 <sup>4</sup>
Social Studies (senior high school)	90 <sup>5</sup>

Sociology

Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION

General Studies Requirements (See Chapter 3. Waive GSB-3.)	84
Requirements for Concentration in Sociology	53
GSD FL	(9)

<sup>1</sup> 57 hours in general science: Chemistry 111-15, 341-4; GSA 201-8, 356-3; Physics 211-15, plus 6 hours related in each earth science and health science from General Studies; and 27 hours in mathematics: GSD 114-9, Mathematics 150-8, 300-4, 320-3, plus one other mathematics course above 299.  
<sup>2</sup> Courses in addition to this total will be required.  
<sup>3</sup> GSD 101a,b, 103; GSC 151, 252, 253, 254; English 302b,c, 309a,b, 335, 420b, 300, 390, 400, 403, 405b; Speech 224; Theater 410.  
<sup>4</sup> 27 hours in history, 24 in government or geography, and 12 hours in each of two of the following: anthropology, economics, geography or government, sociology.  
<sup>5</sup> One concentration of 37 hours and two 27-hour concentrations from the areas of economics, geography, government, history, and sociology.

Anthropology, psychology (one course in each) .....	8
Sociology 301, 308 (or GSD 114d or Mathematics 410a), 312, 321, 405, 451 .....	23
Sociology electives to complete 45 hours .....	22
A background course in physical anthropology is also recommended.	
<i>Secondary Concentration</i> .....	27
<i>Electives</i> .....	28
<i>Total</i> .....	192

### *Social Welfare*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) ....	84
<i>Requirements for Concentration in Sociology</i> .....	62
GSD FL .....	(9)
Anthropology, economics, psychology (one course in each) ..	12
Government (two courses in the area of American national, state, and local government) .....	8
Sociology 301, 302, 308 (or GSD 114d or Mathematics 410a), 321, 340, 375, 481, 482 .....	31
Sociology electives .....	11
<i>Secondary Concentration</i> .....	27
<i>Electives</i> .....	19
<i>Total</i> .....	192

### *Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, the requirements for concentration in sociology include 301, 302, 321, 333, 340, 374, and sociology electives to complete 48 or 36 hours depending on whether the student has one or two secondary concentrations. One (but not two) secondary concentration should be in another social science.

#### *Secondary Concentration*

A secondary concentration of 24 hours may include GSB 359-6.

### **Special Education**

The Education Division offers undergraduate work leading to the Bachelor of Science in Education degree in special education. Completion of the degree requirements qualifies one for certification as a teacher of the mentally handicapped, or for approval as a teacher of the emotionally disturbed or of the gifted.

### *Bachelor of Science in Education Degree, EDUCATION DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) ....	84
<i>Requirements for Concentration in Special Education</i> .....	32
EDUCABLE MENTALLY HANDICAPPED	
Special Education 410b-4, 413b-4, 414-4, 420-4, 428-4, 481b -4 .....	24
Elementary Education 351e (8 hours of teaching of educable mentally handicapped children) .....	8

EMOTIONALLY DISTURBED	
Special Education 410a, 413a, 414, 420a, 428, 481a .....	24
Elementary Education 351e (8 hours of student teaching of emotionally disturbed children) .....	8
GIFTED	
Special Education 410c, 413c, 414, 420c, 481c .....	24
Elementary Education 351e (8 hours of student teaching of gifted children) .....	8
Professional Courses .....	39
GSB 331 .....	3
Counselor Education 305-4, 412-4, 422-4 .....	12
Educational Administration 355 .....	4
Elementary Education 314-4, 337-4, 351d-8 .....	16
Instructional Materials 417 .....	4
Electives .....	37
Total .....	192

These programs fulfill all the requirements for an elementary teaching certificate in Illinois plus a certificate to teach educable mentally handicapped children, emotionally disturbed children, or gifted children.

Information relative to programs leading to a master's degree appears in the Graduate School bulletin.

Speech

All students with either a primary or a secondary concentration in speech or theater must participate in one or more of the performance activities: debate, forensics, theater production, oral reading, radio-television. The degree and extent of the participation are determined through consultation with the student's adviser.

Students with primary concentrations in speech and theater in their senior year present to an examining committee of speech and theater faculty a special senior project consisting of an oral presentation that exemplifies effective speaking and reveals the student's grasp of speech subject matter on a topic that embraces a relatively broad area of speech. Early in the senior year the student with the consent of his adviser determines the area and extent of the topic selected. The committee certifies the project as acceptable only if it meets minimal standards of effective and meaningful communication. In the event that the special senior project is judged to be unsatisfactory, the student usually is required to enroll in an additional performance course as an alternative to satisfying the requirement.

Bachelor of Arts Degree, FINE ARTS DIVISION

General Studies Requirements (See Chapter 3. Waive GSC-3.) ....	84
Requirements for Concentration in Speech .....	48
GSB 157, GSD 103, FL .....	(17)
Speech 104, 202, 205, 224, 301 .....	18
Speech Pathology and Audiology 200 .....	4
Electives in at least three of the following areas:	
radio-television, speech, speech pathology and audiology, and theater .....	26



<i>Secondary Concentration</i> .....	24
<i>Electives</i> .....	36
<b>Total</b> .....	192

Students seeking certification for teaching with the Bachelor of Arts degree must take the program outlined above, including Speech 406, Theater 111 and 402, and meet the other minimum standards for certification listed under Secondary Education in this chapter.

#### *Bachelor of Science Degree, EDUCATION DIVISION*

Students seeking the Bachelor of Science degree with a concentration in speech education must take the program outlined above, including Speech 406, Theater 111 and 402, and meet the other minimum standards for certification listed under Secondary Education in this chapter.

#### *Secondary Concentration*

A 30-hour secondary concentration in speech must be planned in consultation with the chairman of the Speech and Theater faculty. Students electing speech as a second teaching subject must include Speech 406.

#### **Speech Pathology and Audiology**

##### *Bachelor of Arts Degree, FINE ARTS DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) ....	84
<i>Requirements for Concentration in Speech Pathology and Audiology</i>	91
GSB 201c, 331 .....	(7)
GSD 103, FL .....	(12)
Counselor Education 305, 422 .....	8
Elementary Education 314, 337, 351d-8 .....	16
English 391 (or proficiency) .....	3
Psychology 301, 305 .....	8
Special Education 414 .....	4
Speech 104 .....	4
Speech Pathology and Audiology 200, 203, 212, 318, 319, 405-8, 406, 412, 414, 415, 419 .....	48
<i>Electives</i> .....	17
<b>Total</b> .....	192

#### **Student Teaching**

Supervised student teaching is conducted in cooperating public schools near the Edwardsville Campus. A minimum of 8 hours is permitted for experienced teachers holding a provisional certificate in the summer quarter only. Twelve to 16 hours in full-day student teaching are required for graduation.

Application for student teaching should be completed at least two quarters prior to enrollment in the program. The necessary forms are available at the Student Teaching office.

The maximum academic load is 16 hours during the quarter of student teaching; the student is responsible for adjusting his class schedule and outside work load so that maximum attention can be given to his field experience.

*Prerequisites*

The student teacher should meet the following requirements prior to enrollment in student teaching:

1. A pre-student teaching September experience of two weeks observation at the end of the sophomore or junior year is required of all teacher education students. Fall quarter student teachers may fulfill this requirement by beginning student teaching when the cooperating school begins its school year. Applications for a September experience, available in the Office of Student Teaching, must be submitted during the preceding spring quarter.
2. At least 144 hours with a 3.2 average.
3. Satisfactory completion of GSD 103 or an equivalent public speaking course.
4. Conference with an approval of adviser in teaching field and adviser in professional education.
5. The state of Illinois requires that all students doing student teaching take a physical examination including a tuberculin test or a chest X-ray. Forms for these examinations can be obtained from University Health Service and should be returned to the same office at least two months prior to the student entering the public school classroom.
6. The professional education requirements of this institution, including areas of concentration and education courses, must be met by students seeking certification but not a degree.
7. One quarter of residence at the Edwardsville campus and completion of the minimum hours in each of the areas specified below.

SECONDARY

- a. At least 32 hours in first area of concentration or 48 hours in broad teaching fields.
- b. At least 16 hours including Counselor Education 305, Educational Administration 355, Secondary Education 315, and one elective in professional education courses prior to enrollment in student teaching.

ELEMENTARY

- a. At least 24 hours including Counselor Education 305, Educational Administration 355, Elementary Education 314, 337, 415, Instructional Materials 417.
- b. Students doing their student teaching in grades one through three are encouraged to enroll in the fall quarter.

KINDERGARTEN-PRIMARY

- a. All elementary requirements including 8 hours of elementary student teaching.
- b. Three terms of Music 010e or pass proficiency.
- c. Elementary Education 316.
- d. Additional 8 hours of student teaching at the kindergarten level.

SPECIAL

- a. Elementary requirements.
- b. Additional courses: Special Education 410, 413.
- c. Eight hours of student teaching in elementary education.

**Theater**

*Bachelor of Arts Degree, FINE ARTS DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in Theater</i> . . . . .	48
GSC 157, 354-6, GSD 103, FL . . . . . (17) +	6
Speech 104 or Speech Pathology and Audiology 200 . . . . .	4
Theater 111-3, 204, 207, 402, 438 . . . . .	19
Speech and theater electives . . . . .	19
<i>Secondary Concentration</i> . . . . .	24
<i>Electives</i> . . . . .	36
Art 100, Philosophy 360, English 365, 460, 468, 471 are recom- mended.	
<i>Total</i> . . . . .	192



# 6/ Degrees

SOUTHERN ILLINOIS UNIVERSITY grants the following undergraduate degrees:

Bachelor of Arts	Associate in Art
Bachelor of Science	Associate in Business
Bachelor of Music	Associate in Technology
Bachelor of Music Education	

## Graduation

Every candidate for a degree must file written application with the Registrar no later than the first week of his last quarter in attendance before the desired graduation date. Therefore, a person desiring to graduate in the June commencement should make application for graduation during the first week of the spring quarter. The application forms are available in the Registrar's Office.

At the time of application the student must pay his graduation fee and order his cap and gown through the University Store and register with the Placement Service. A student must have a 3.00 grade-point average before his application for a degree may be accepted.

In addition to the satisfying of all necessary academic requirements each candidate for a degree must make certain that he has no outstanding financial obligation with the University. Otherwise, his graduation clearance will be held up.

Students must attend Commencement exercises to receive their diplomas, unless in advance they obtain permission to be graduated *in absentia*.

## Associate Degrees

Each candidate for an associate degree must complete a minimum of 96 hours of credit in approved courses. Each student must maintain a *C* average. The degree-granting unit for the associate degree is the Division of Technical and Adult Education. For additional information concerning this degree refer to the Division of Technical and Adult Education bulletin.

## Bachelor's Degrees

Every bachelor's degree candidate is expected to meet the University's general requirements and to follow the recommendations of his academic unit.

Each candidate for the degree must complete a minimum of 192 hours of credit in approved courses. At least 64 must be in third-level (i.e., 300- or 400-level) college courses. Each student must have a *C* average, and

grades not lower than *C* in subjects aggregating at least three-fourths of the work. A *C* average is required in the area of concentration. These averages are required for credit made at this University as well as for the total record. To receive a bachelor's degree from Southern Illinois University a student must present either a total of three years' work (144 hours) earned at Southern Illinois University or 48 senior college hours earned at the University, 16 of which may be earned in extension.

A student who receives his first bachelor's degree from Southern Illinois University and who desires a second bachelor's degree must complete a minimum of 45 hours in addition to those required for the first degree and must fulfill the requirements for the second degree. Of these 45 hours, a minimum of 15 must be taken in residence at the University, and a maximum of 15 may be acquired in extension and/or correspondence courses. At least 30 hours must be in senior college courses. If a student received his first bachelor's degree from another university, a minimum of 48 hours are required to fulfill the residence requirement for the second bachelor's degree, two-thirds of which must be in senior college courses.

The State of Illinois requires that American patriotism and the principles of representative government, as enunciated in the American Declaration of Independence, the Constitution of the United States of America, and the Constitution of the State of Illinois, and the proper use and display of the American flag shall be taught in all public schools and other educational institutions which are maintained in whole or in part by public funds, and that no student shall receive a certificate of graduation without passing a satisfactory examination upon such subjects. Government 231, 300, History 330, and GSB 203a and 300a offer such instruction.

Students preparing to teach must satisfy the certification requirements of the state in which they plan to teach. Illinois requirements are described in Chapter 8 of this bulletin. Certification information may also be obtained from the Registrar's Office. Most students who plan to teach in the public schools register in the Education Division.

### **Preprofessional Programs**

Preprofessional students may, subject to certain conditions, obtain a bachelor's degree after three years' work (144 hours) at Southern Illinois University and one or more years' work in a professional school. During their three years of residence at Southern Illinois University they need to have completed all requirements other than elective hours for the bachelor's degree which they are seeking.

In some cases the completion of concentration requirements is possible by their taking certain courses at the professional school, but this is permitted only upon the prior approval of the appropriate division dean. Also, there needs to be completion of at least one year of professional work with acceptable grades in a Class A medical school, a Class A dental school, a Class A veterinary school, or an approved law school. In all cases, all University graduation requirements must be met. It is advisable for a student interested in this program to make his decision to seek a bachelor's degree before entering the professional school so that any questions may be clarified at an early date. Preprofessional training is offered in the areas of medical technology, medicine, dentistry, and veterinary science.

Students working toward the Bachelor of Science degree in agriculture may attend the Edwardsville Campus their freshman year and transfer to the Carbondale Campus for the completion of the degree. In preparing for one of the agriculture professions, the student should follow closely the appropriate course of study as suggested in the Carbondale Campus Undergraduate Catalog.

Students working toward a Bachelor of Science degree in home economics may attend the Edwardsville Campus their freshman and sophomore years and transfer to the Carbondale Campus for the completion of the degree. In preparing for this degree, the student should follow closely the appropriate course of study in the Carbondale Campus Undergraduate Catalog.

### **Advanced Degrees**

For information concerning master's degrees or the Doctor of Philosophy degree, refer to the Graduate School Catalog or direct inquiries to the Assistant Dean, Graduate School, Southern Illinois University, Edwardsville, Illinois 62025.





## 7 / Student and Area Services

SOUTHERN ILLINOIS UNIVERSITY recognizes the importance of providing students every opportunity to benefit in the fullest manner from their college experiences. The University is one of the first in the nation to pioneer in relating administratively the operations of student services and area services. A goal is to assist students in their participating in the activities of the regions served—including international areas. At the same time the University hopes to assist residents of the community, region, and state to understand better the purposes of the University and the contributions of young men and women.

### Student Services

The University is concerned with an integrated approach to student needs and problems in intellectual, social, spiritual, and physical areas. Students may learn about and be referred to specialized services throughout the University by publications describing the services and by the personnel in units which are concerned with students.

Those functions of Student and Area Services relating directly to students include the student services administered by the Dean of Students (e.g., student housing, counseling, testing, and student activities), the University Placement Services, the University Health Services, the Student Work and Financial Assistance Program, the International Student Services of the International Services Division, the University Information Services, the University Broadcasting Services, the University Alumni Services, the Community Development Services, and the Public Administration and Metropolitan Affairs program.

#### *Office of the Dean of Students*

The Dean of Students on each campus coordinates the student services offered by the units within the Student Affairs Division. The deans and their staffs work closely with other University offices, with students, and with faculty in planning and implementing an integrated program of activities and services. The Office of the Dean of Students provides information about the University and its services, and lends assistance to students who request it.

#### *Counseling and Testing*

The Counseling and Testing Center is staffed with professional counselors who are qualified to discuss freely any problem or plan—academic, personal, or vocational—that may concern the student. Counseling is designed to aid the student in arriving at a realistic solution to his problem by providing a permissive setting in which he may freely verbalize his thoughts and feelings and, in turn, gain insights for greater understanding. The counselor may use tests as an aid in helping the student evaluate

his strengths and limitations. These may include measures of interest, aptitude, personality, and achievement.

Most of the students who seek help from the Counseling and Testing Center refer themselves. However, referrals are received from the faculty and from agencies throughout the University. Students may make appointments by telephone. Services are free.

The American College Testing Program is administered on both the Carbondale and Edwardsville Campuses. In addition to the extensive individual testing conducted in conjunction with counseling, the Counseling and Testing Center administers testing programs for selection, placement, and research purposes.

An on-going program of research is carried out by the staff of the Counseling and Testing Center in student attitudes, aptitude, achievement, and background; the college environment; and other areas related to the total educational process. Staff members serve as consultants to other faculty members in educational and institutional research.

### *Student Housing*

Because of the relationship between the student's living environment and his progress towards attainment of his educational goals, Southern Illinois University provides and continually improves on-campus housing for its students and seeks continually to influence both the availability and quality of off-campus housing.

#### BASIC STUDENT HOUSING POLICY

Because of concern for and interest in the housing of students, the Board of Trustees of Southern Illinois University established, in 1963, basic policy on student housing. At its meeting in April, 1965, the Board of Trustees amended its 1963 policy and passed a resolution which established the current basic policy on student housing as follows.

Single undergraduate students not residing with their parents or guardians will be permitted to reside only in those accommodations which have been and which continue to be classified by the Administration as Accepted Living Centers. Any single undergraduate student who resides in accommodations not designated as an Accepted Living Center shall be subject to disciplinary action. The Administration vigorously encourages that all accommodations used by graduate students and married undergraduates meet the same minimal standards.

The qualifications necessary for a living unit to be classified as an Accepted Living Center encompass due consideration for safety, sanitation, health and recreation, supervision, and the creation of an environment conducive to good study conditions. In addition, the living unit must be limited to students of Southern Illinois University and available to all students of the University regardless of race, color, religion, or national origin.

The Administration reviews annually the Housing Policies and Standards and makes appropriate recommendations to the Board of Trustees for upgrading living conditions for students.

#### UNIVERSITY HOUSING, CARBONDALE CAMPUS

Applications for University housing for students for any academic year may be filed after September 1 of the preceding year. Assignments of



space and contracts for housing may be made on the basis of the date of original application for housing if the student has been admitted to the University.

Present nine-month rates for University housing for single students (room and board) is \$876. Family rates are dependent on the type of facility available.

The rates charged by the University for the various housing units are established on the basis of current costs, and every effort is made to keep rates at the lowest possible level. All rates for University housing are subject to change from time to time depending upon the prevailing cost structure and approval by the Board of Trustees.

#### UNIVERSITY HOUSING, EDWARDSVILLE CAMPUS

The Edwardsville Campus is designed for commuters, and approximately 85–90 percent of the students reside at home while attending the University. At the present time, there are no residence halls on the Edwardsville Campus.

#### OFF-CAMPUS HOUSING

In order for living accommodations to be classified as Accepted Living Centers, facilities must meet certain safety, sanitation, health, recreation, and supervisory standards. The creation of an environment which is conducive to good study conditions is always of primary consideration.

Owners of off-campus housing facilities use the University's contract form for student rental housing. Each student contract has to be signed by the owner or his legal representative, by the student renter, and by an appropriate staff member of the office of the Assistant Dean for Off-Campus Housing.

Staff members are available to advise students who seek off-campus accommodations. Experience has indicated that attempting to obtain off-campus facilities by mail is generally unsatisfactory. Therefore, prospective students are urged to visit the campus and personally seek desirable living accommodations.

Detailed information concerning housing may be found in "Student Housing Policies and Standards," which may be obtained at the Office of the Dean of Students.

#### *Student Activities*

The staff members of the Student Activities Office are available to all campus groups and individuals in planning, conducting, and evaluating activities and programs.

Besides honorary organizations which stimulate and recognize academic achievements, other groups and organizations exist to meet the educational, religious, social, recreational, political, and other special interests of the student.

Through the use of the Student Activities funds, certain all-campus groups are able to initiate and plan a wide variety of programs for the entire campus community.

Through the establishment and recognition of such organizations and programs at Southern Illinois University, students are able to become involved with the academic community. Participation in any group or organization is open to all students.

### *Student Guidebook*

Specific information and current policies concerning housing, motor vehicle regulation, student activities, student code, and general matters are found in the *Student Guidebook*, which is distributed to new students upon admission to the University. All students should be cognizant of University requirements and regulations and may obtain copies of the *Student Guidebook* from Central Publications or from the Office of the Dean of Students.

### *Office of Student Work and Financial Assistance*

Southern Illinois University has an excellent program whereby a student may combine student work with financial assistance to defray a large part of his educational expenses. Student job diversity extends from unskilled entry jobs to those jobs requiring college training. Employment opportunities for students exist in every unit of the University.

The Student Work Program provides part-time employment and work experience which relates, if possible, to the student's academic programs. The kind of training and length of the program are determined by the employing unit in cooperation with the Office of Student Work and Financial Assistance.

Undergraduates employed on campus are paid from \$1.00 to \$1.75 per hour, based upon off-campus experience and the number of years of satisfactory service to the University. Graduate students receive \$1.15 to \$2.00 per hour.

Undergraduates must be enrolled in at least 12 hours to qualify for part-time student work on campus during any quarter except the summer quarter, when students may work and be enrolled in a reduced number of class hours.

In addition to student work, scholarships, grants, loans, and other aids are available to assist academically capable, financially needy students. As a part of the award program, the Board of Trustees has established tuition awards known as Southern Illinois University Scholarship and Activity Awards. To apply for awards, entering freshmen must have ranked in the upper half of their graduating class and have achieved a minimum comprehensive high school average of *C*; enrolled students must have a minimum average of *C* for all college work. For scholarships available to upperclassmen, a minimum average of *C* is required for all college work. For some scholarships, higher averages are required.

The limitations of such forms of assistance make it inadvisable for an undergraduate to expect to meet all University expenses from such sources. The University may assist in making up the difference between college costs and the student's resources through scholarships, awards, and loans.

Students desiring to apply for financial assistance must be officially admitted to the University and should request an application for financial assistance from the Student Work and Financial Assistance Office. In general, students should apply for assistance between January 1 and March 15 prior to the September when assistance is needed.

### *Health Services*

The Health Services Division provides medical services at all the major instructional centers of the University. Its purpose is to render service to



the students, faculty, and staff within the limits imposed by the size and professional status of the staff, by legal obligations, and by the available facilities.

A physical examination, preferably performed by the family physician, is required of all students before attending classes on a full-time basis. A simplified form is furnished the student for this purpose; it should be mailed or brought to the Health Service on completion. From this record, decisions may be made relative to special considerations for physical disabilities, need for individualized physical education courses, and treatment of illnesses while the student is enrolled.

Detailed information about the service provided and the voluntary health insurance program available to students at special rates may be obtained through a brochure available at the Health Service.

### *Placement Services*

The University Placement Services are provided for the benefit of students, graduates, and others who have been attending the University, and who desire to find employment. It also serves employers by helping them locate personnel. Services are free to candidates seeking positions, as well as to employers.

Each student is requested to register with the Placement Service during the fall quarter of his senior year. Credentials are sent to prospective employers at the request of either the candidate or the employer.

As a means of helping students and graduates obtain permanent employment, a library of employer information is maintained. Company representatives visit the campuses throughout the year, and interviews are scheduled for students who have registered with Placement Services.

### *International Student Services*

The office of International Student Services attends to the special needs of the student from abroad. Staff members with special qualifications have primary responsibility for assisting the student in matters of adjustment to the University and with matters of immigration, passport problems, contacts with sponsors (foundations, agencies, governments), and financial and personal problems. A special effort is made to integrate the students from abroad into the University and area life and, reciprocally, to help them become a living resource for American students to expand their horizons and interests.

### *Cooperative Clinical Services*

The Cooperative Clinical Services Center is a coordinated center of services (on the Carbondale Campus only) open to students as well as children, adolescents, and adults. Persons may report directly to the center or write the manager for an appointment. Services include psychodiagnostic assessments, speech and hearing evaluations, assistance with reading and study skills, personal counseling, marriage counseling, rehabilitation counseling, vocational counseling, speech and hearing therapy, and physical therapy. Cooperating agencies include Reading Center, Department of Guidance and Educational Psychology, Department of Psychology, Department of Special Education, Department of Speech Pathology and Audiology, Rehabilitation Institute, Department of Sociology, Counseling and Testing Center, and Health Service.



### *Bursar*

The Bursar's Office accepts payment of tuition, fees, and room charges. It also distributes checks for student employment. Limited check cashing services are provided to students. Students are encouraged to establish checking accounts in local banks of the area to obtain the full services of a regular checking account.

### *Identification Cards and Certificates of Registration*

Each student receives an identification card which bears his photograph and serves to identify him while he is enrolled at Southern Illinois University.

A certificate of registration, issued each quarter, certifies payment of the student activity fee. The identification card is used with the certificate of registration for the current quarter to identify students who have paid the student activity fee and are eligible to use University facilities.

The identification card and the certificate of registration are legal documents. A student who loans, borrows, or alters these cards is subject to disciplinary action; in addition, such action may be considered a criminal offense as well as an infraction of University regulations. It is important to obtain a new certificate of registration each quarter and *to carry both the identification card and the current certificate of registration at all times*. These cards are also used to borrow books from the University Libraries and to gain access to the University Center recreational facilities. They are used in the Registration Process at Carbondale.

### **Residence Regulations**

Regulations defining the residence of students for purposes of registration in Southern Illinois University are as follows:

1. Evidence showing the residence of every applicant for admission to the University must be submitted to the Registrar at the time of application for admission, and resident or nonresident fees shall be assessed on the basis of evidence appearing in the Registrar's records.
2. In all cases where the records indicate that the student's home is outside the state of Illinois, the nonresident fee shall be assessed. A student who takes exception to the ruling may file a claim for a refund, but this must be submitted to the Registrar within 10 days of the opening date of the quarter for which the charge was made.
3. In the case of a student who is a minor, the residence of the parent, or if the student has no parent, the guardian of this person, shall govern unless there is proven to have been complete emancipation of the minor from his parents or guardian and he has established residence in the state of Illinois.
4. Any student, adult or minor, whose parents have established a bona fide residence in the state of Illinois will be regarded as a resident for registration purposes; except that an adult student who has established a residence on his own account outside of the state must conform to the terms set forth in regulation 6 to be classified as a resident.
5. A wife is classified as a resident for registration purposes if her husband is a bona fide resident of the state of Illinois preceding and at the time of her registration.
6. An adult student, whose parents are deceased or whose parents re-

side outside the state, to be considered a resident of Illinois for purposes of registration must be a bona fide resident of the state for three months preceding the beginning of any quarter for which he registers at the University and must present evidence that he is self-sustaining and not under parental control.

7. An adult alien who holds valid immigration papers and is in the United States under an immigrant-type visa may qualify as a resident of the state for purposes of registration in the University if he has lived within the state for at least a period of twelve months next preceding the beginning of any quarter for which he registers at the University, subject to the provisions of rules 4 and 6.

8. Several factors will be considered in the determination of each individual case. Among the factors to be considered will be (a) location of draft board registration, (b) voting address, if any, (c) the degree of self-support of the student, (d) location of summer or vacation employment.

9. All cases of appeal shall first be referred to the Legal Counsel of the University. An appeal from the Legal Counsel shall be in accordance with University statutes.

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Note: In the above regulations an adult student is considered to be a male at least 21 years of age or a female at least 18 years of age.





# 8 / Course Descriptions

Here are listed all of the courses offered by the Edwardsville Campus for credit toward a bachelor's, master's, or doctor's degree. (Associate degree courses and certificate courses are described in the Division of Technical and Adult Education catalog.) Courses are listed numerically within each subject-matter area. Areas are listed below in the order of their appearance on the following pages.

General Studies Area A	General Business Administration
General Studies Area B	Geography
General Studies Area C	Government
General Studies Area D	Health Education
General Studies Area E	History
Accounting	Humanities
Aerospace Studies	Instructional Materials
American Studies	Journalism
Anthropology	Management Operating Systems
Applied Science	Marketing
Art	Mathematics
Biology	Music
Business Communications	Nursing
Business Education	Personnel and Industrial Relations
Chemistry	Philosophy
Comparative Literature	Physical Education
Counselor Education	Physics
Economics	Production
Educational Administration	Psychology
Elementary Education	Quantitative Methods
Engineering	Radio-Television
English	Rehabilitation
Finance	Science and Technology
Foreign Languages	Secondary Education
General Foreign Language	Social Welfare
French	Sociology
German	Special Education
Italian	Speech
Russian	Speech Pathology and Audiology
Spanish	Theater

## Explanation of Entries

The first entry for each course is a three-digit numeral which, together with the subject area, serves to identify the course. The first digit indicates that the course is for freshmen, sophomores, juniors, seniors, or graduate students only, depending on whether the digit is 1, 2, 3, 4, or 5, respectively.

Following the identification number are a dash and another number, which indicates the maximum credit allowed for the course. The maximum

may be variable, such as Art 393-4 to 12. Some courses do not terminate at the end of one quarter, as evidenced by two or more numerals in parentheses indicating the credit allowed for each quarter of participation in the course, such as GSC 370-9 (3,3,3). The bold face letters in parentheses correspond to the numerals in parentheses and are followed by a description of the material to be covered that quarter. Next is the title, followed by a description of the course. If certain requirements must be satisfied before enrollment in a course, they are listed as prerequisites.

Not all of the courses described here are offered every quarter or even every year. To find out when and where a course is to be offered, consult the Schedule of Classes, which may be obtained from Central Publications, Southern Illinois University, Carbondale, Illinois 62901. When requesting a schedule, please specify *campus* (Carbondale or Edwardsville) and *quarter* (fall, winter, spring, or summer).

### **Man's Physical Environment and Biological Inheritance (GSA)**

**101-8 (5,3) Introduction to Physical Science.** (a) A study of the fundamentals of physics covering aspects of mechanics, electricity and magnetism, optics and atomic physics. (c) A study of chemical principles and the atomic structure of matter. Must be taken in a,c sequence. Prerequisite: satisfactory score on placement test or GSD 106.

**110-8 (4,4) The Earth and Its Environment.** A study of the earth, its major domains and its space environment; student investigation of earth substances, processes and utilization of energy. An investigative approach for study of the observational and measurement techniques of the earth scientist. Lecture, laboratory, and individual study. Must be taken in a,b sequence. Prerequisite: one year of high school chemistry.

**201-8 (4,4) Man's Biological Inheritance.** Basic biological concepts are explored at levels of integration ranging from the molecular to the ecosystem. Topics include structure and function of cells and organisms, genetics, continuity of life, problems of populations, environmental control, evolutionary development, interrelationships between plants and animals. Must be taken in a,b sequence. Students entering sequence should have taken GSA 101 or 110.

**310-3 Human Anatomy and Physiology.** A survey of the structure and function of the principal systems of the human body. Prerequisite: GSA 201a,b.

**312-3 Conservation of Natural Resources.** A study of man's use and misuse of natural environment.

**314-3 Man's Genetic Heritage.** Principles of heredity as related to man, with emphasis on the effects of environment on his biological inheritance.

**330-3 Weather.** A study of weather elements basic to understanding the various atmospheric happenings, with application to agriculture, industry, recreational resources, etc. May take only 330 or 331 for General Studies credit.

**331-3 Climate.** Description and interpretation of climatic regions and their influence on human activity. May take only 330 or 331 for General Studies credit.

**356-3 Astronomy.** The earth, moon, solar system, galaxy, and universe. A first course, largely descriptive, but relating behavior of celestial bodies to fundamental physical laws. Prerequisite: 101a.

**361-3 Physics of Music and Acoustics.** Nature, propagation, sources, and receptors of sound; acoustic phenomena; physics of musical instruments; mathematics of music; ears and hearing; physiology and psychology; transmission, storage, and reproduction. Prerequisite: 101a.

**363-6 (3,3) Philosophy of Science.** (a) The logic of scientific explanation illustrated by analysis of physical concepts and theories. (b) The logic of explanation in the biological and behavioral sciences and their implications for the individual and society. Should be taken in a,b sequence.

**365-3 Human Origins.** A consideration of the fossil record and basic principles of human evolution. Prerequisite: 201a,b.



### Man's Social Inheritance and Social Responsibilities (GSB)

**101-8 (4,4) Survey of Western Tradition.** (b) Political, economic and cultural history of Europe from the Early Middle Ages to the end of the Napoleonic Age. (c) History of Europe from Congress of Vienna to the present.

**103-8 (4,4) Sociology-Economics.** An introduction to the great economists and sociologists and especially to those writers who are regarded as both. (a) An historical development of sociological ideas and introduction to such concepts as social structure, role behavior, and social institutions. (b) A historical development of economic ideas and an introduction to economic concepts, institutions, and problems. Should be taken in a,b sequence.

**201-8 (4,4) The Individual and His Cultural Environment.** A study of human behavior in the light of cultural and psychological processes. (a) Anthropology: An examination of the biological and cultural origins of mankind; cultural diversity and human behavior; characteristic features of tribal societies, including economy, social organization, language, art, religion, and political organization; place of non-industrialized societies in the modern world. (c) Psychology: Surveys modern psychological approaches to individual behavior; includes basic developmental processes such as learning and motivation plus a study of personality and related adjustment problems. Prerequisite: 101 or 103.

**203-8 (4,4) American Politics in the World Environment.** (a) The theory, organization, and operation of American government. (b) Analysis and interpretation of human geographic patterns; world population, settlement, economic activities. Meets State Constitution requirements.

**300-9 (3,3,3) History of the United States.** A general survey of the political, social, and economic development of the United States. (a) 1492 to 1815, (b) 1815 to 1900, (c) 1900 to the present.

**311-3 Economic Development of the United States.** Emphasizes the underlying trends and forces of change that have led to our present economic structure, level of performance, and world position. Prerequisite: 101c or 103b.

**312-3 Comparative Economic Systems.** A comparative study of the goals, structure, and operation of the major economic systems, such as capitalism, socialism, and fascism. Emphasis upon basic systems of organization and control, and upon mixed economies.

**318-6 (3,3) State and Local Government and Politics.** (a) An examination of the role of local government and the place of localities in the U.S. federal system through a review and analysis of the major forms of government, the political processes and the problems and prospects of local government in the U.S. A comparative approach will be used emphasizing Illinois experiences and practices. (b) An examination of the governmental processes within the several states and a review of the role of the states in the federal system. A comparative approach to structure and politics is used, emphasizing Illinois issues and practices.

**331-3 The American Educational Systems.** A critical and problematic study of education as a major social enterprise of a free society in its context of international involvements. The formative influences upon the American educational systems, its basic characteristics, difficulties and prospects are explored through the disciplines comprising the intellectual-cultural foundations of education. Designed for all students irrespective of major discipline or professional pursuit.

**341-3 Marriage.** An examination of marriage in various societies with an emphasis on the origins, changes, and present status of dating, courtship and marriage in the United States.

**345-3 Introduction to American Foreign Policy.** An investigation of the means by which American foreign policy is formulated and executed and an analysis of the most significant challenges confronting America abroad.

**351-6 (3,3) Geographic and Cultural Background of Developing Africa.** (a) The relation of geography to the culture of Africa, with emphasis on the place cultural and geographic factors have in the developing nations of Africa, (b) An introduction to the many diverse cultures of Africa from the Egyptian civilization to the Bushman hunters. May be taken separately.

**354-3 Industrial Economic Geography.** Geographic resource relationship to



the economic life of our nation, distribution of resources, industrial production, and the transportation of industrial products.

**359-6 (3,3) Society and State: Social and Political Theories.** Historical survey of political and social theories from ancient times to the 20th century. The formation of concepts are traced from their origins in the early civilizations to their development in Western thought. Critical analyses of representative thinkers. May be taken separately.

**366-3 Growth of Culture.** An examination of the process of culture change and culture growth from the time of the first primates called "man" to the beginnings of civilization.

**369-3 The Contemporary Far East.** A study of relations between wartime and peacetime economics with specific references to government controls, impact of military expenditures in "hot" and "cold" wars, and the reallocation of resources.

**380-6 (3,3) East Europe: Cultural Heritage and Present Institutions.** (a) Cultural Heritage, (b) Present Institutions. An introduction to the European area east of the iron curtain with attention evenly divided among Russia, the Balkans, and Northern East Europe.

**382-6 (3,3) History of Great Britain Since 1782.** The evolution of industrial democracy in Great Britain from the beginning of the Industrial Revolution.

**385-3 Contemporary Political Isms.** An advanced survey of nationalism, socialism, communism, liberal democracy, Christian socialism, corporatism, fascism.

**392-3 Introduction to Latin American Government and Politics.** A general introduction to Latin American government on the institutionalized political expression of Latin American civilization and culture. Does not require a reading knowledge of Spanish or Portuguese.

### Man's Insights and Appreciations (GSC)

**151-3 Introduction to Poetry.** Introduction to the enjoyment of poetry. Practice in techniques of critical reading and writing. Prerequisite: GSD 101a,b.

**155-5 Introduction to Art.** Basic introduction to the visual arts, particularly painting, sculpture, and architecture. The primary objective is to cultivate skill and discrimination in seeing and understanding works of art from many periods.

**156-5 Introduction to Music History-Literature.** An introduction to the elements of music, the important composers, periods, styles, and forms of music.

**157-5 The Dramatic Media: Theater, Cinema, and Television.** A study of dramatic media, theater, television, and film with emphasis on the roles and techniques of artists and craftsmen involved. Required theater attendance and television and film viewing. Appropriate research activity.

**158-5 The Fine Arts.** An introduction to the principal branches of fine arts: visual art, music, and literature. The relationships that bind them together. Due attention is given to the distinguishing attributes of each.

**252-4 Logic.** Study and practice in the analysis of verbal traps, relations between statements, deductive arguments, and inductive inferences.

**253-4 Literary Masterpieces of Antiquity.** Reading and discussion of selected literary texts from Classical and Hebraic Antiquity.

**254-4 Philosophical Masterpieces.** Reading and discussion of selected philosophical masterpieces of western civilization.

**313-3 Folklore.** The types of folklore, with extensive readings in American and European folklore: practice in collecting and classifying, and in the use of Thompson's index, etc.

**333-3 The Bible as Literature.** The Bible in English translation considered as literature.

**335-3 Studies in Short Fiction.** The development of the short story as an artistic expression, its techniques, and its versatility, from the early 19th century to the present.

**337-3 The English Language Heritage.** A survey of the resources of the English language with emphasis upon the processes of change in vocabulary, meaning, and linguistic pattern.

**339-3 Classical Mythology and Its Influence.** The major myths: their nature, origin, interpretations, influence, relevance, and use in the modern world.

**340-3 Modern Art A: The Art of the 19th Century.** The principal movements of the 19th century: neo-classicism, romanticism, realism, impressionism, and post-impressionism. The styles of David, Ingres, Delacroix, Corot, Courbet, Manet, Degas, Monet, Renoir, Seurat, Van Gogh, and Gauguin are emphasized.

**341-3 Modern Art B: Art of the Early 20th Century 1890-1925.** A study of modern art as manifest in Fauvism, cubism, and expressionism. Emphasis on the artistic development of Cezanne, Matisse, Rouault, Picasso, Braque, Gris, Leger, Kirchner, and Kandinsky.

**342-3 Modern Art C: Art of the Mid 20th Century 1920-1945.** Abstraction, later German expressionism, the school of Paris, and surrealism. Special attention to the work of de Chirico, Klee, Miro, Beckman, Chagall, Kokoshka, Soutine, and late Matisse, Picasso, Braque, and Leger.

**354-6 (3,3) History of the Theater.** A study of (a) primitive, Greek, medieval, and Italian Renaissance theater, (b) the theater since the Italian Renaissance.

**357-3 History of Music Literature.** Development of choral and instrumental music from the Renaissance to the present.

**360-6 (3,3) Arts and Ideals in Famous Cities.** A presentation of the chief art styles and aesthetic ideals of Western culture as they flowered in seven famous cities. A close study of selected masterworks of architecture, fine art, music, literature, and philosophy of art as expressions of men who shaped the physical faces and cultural lives of their cities. (a) 5th century B.C. Athens, 13th century Chartres, late 15th century Florence, and early 16th century Rome. (b) 18th century London, 19th century Paris, 20th century New York.

**363-6 (3,3) Philosophy of Science.** (a) The logic of scientific explanation illustrated by analysis of physical concepts and theories. (b) The logic of explanation in the biological and behavioral sciences and their implications for the individual and society. Should be taken in a,b sequence.

**370-9 (3,3,3) American Art.** A study of the visual arts in the United States. While the emphasis is upon architecture, painting, and sculpture in the context of American social and cultural evolution, the minor arts also are placed in perspective. May be taken in any sequence.

**375-6 (3,3) Ethics.** (a) An investigation of the basic problems related to deciding how men ought to act. (b) An investigation of modern discussions of individual and social morality. Must be taken in a,b sequence.

### Organization and Communication of Ideas (GSD)

**101-6 (3,3) English Composition.** Basic rhetorical principles in expository writing. Must be taken in a,b sequence.

**103-3 Oral Communication of Ideas.** The basic principles and techniques of oral communication as applied to everyday speech activities.

**106-0 Intermediate Algebra.** A non-credit course for students who need remedial work in mathematics.

**112-9 (4,5) Introduction to Mathematics.** A study of logical rules of deduction: the real number system, and mathematical structures. Prerequisite: one year of high school algebra and satisfactory score on A.C.T. An alternative course for 114-9. Must be taken in a,b sequence.

**114-9 (5,4) College Algebra, and Trigonometry.** A logical study of the algebraic properties of number systems, polynomials, equations, functions, matrices, exponential and logarithmic functions, trigonometric function. (a) principally algebra. (c) principally trigonometry. Prerequisite: high school intermediate algebra and plane geometry. An alternative course for 112-9. Must be taken in a,c sequence.

**114d-4 Statistics.** Descriptive statistics, probability distributions, sampling, statistical inference, regression and correlation. An alternative course for the second quarter of 114. Prerequisite: 114a.

**123-9 (3,3,3) Elementary French.** Open to students who have had no previous work in French. Must be taken in a,b,c sequence.

**126-9 (3,3,3) Elementary German.** Open to students who have had no previous work in German. Must be taken in a,b,c sequence.

**136-9 (3,3,3) Elementary Russian.** No previous knowledge of Russian required. Must be taken in a,b,c sequence.

**140-9 (3,3,3) Elementary Spanish.** Open to students who have had no previous work in Spanish. Must be taken in a,b,c sequence.



**144–9 (3,3,3,) Elementary Italian.** Open to students who have had no previous work in Italian. Must be taken in a,b,c sequence.

### Health and Physical Development (GSE)

Courses numbered 100–104 are for men; 110–114 are for women; 115–119 are for both men and women.

**101d–1 Life Saving (Men).**

**102–1 Physical Fitness (Men).**

**104–(1 per activity) Individual and Team Activity (Men).** (c) Basketball, (f) Soccer, (g) Speedball, (j) Softball, (n) Cross Country, (t) Touch Football, (u) Wrestling, (x) Handball.

**111d–1 Life Saving (Women).**

**112–1 Basic Body Movement (Women).**

**114–(1 per activity) Individual and Team Activity (Women).** (c) Basketball, (f) Soccer, (g) Speedball, (j) Softball, (n) Field Hockey, (o) Physical Conditioning.

**115–3 (1,1,1) Restricted Physical Education.**

**116–(1 per activity) Swimming.** (a) Beginning Swimming, (b) Intermediate Swimming, (c) Diving.

**117–(1 per activity) Dance.** (a) Square, (b) Folk, (c) Social, (d) Beginning Contemporary, (e) Intermediate Contemporary, (f) Basic Rhythms.

**118–(1 per activity) Individual and Team Activity.** (a) Archery, (b) Badminton, (d) Bowling, (e) Golf, (h) Tennis, (i) Volleyball, (k) Horseback Riding, (l) Sailing, (m) Fencing, (o) Boating and Canoeing, (p) Ice Skating, (q) Fly and Bait Casting, (r) Stunts and Tumbling, (s) Gymnastics, (w) Track and Field, (y) Judo, (z) Recreational Sports.

**201–3 Healthful Living.** Personal and community health. Presents scientific health information as a basis for developing wholesome health attitudes and practices.

### Accounting

**230–4 Accounting Principles.** Study of the basic accounting principles, concepts, conventions, and standards; their application to the analysis and recording of business transactions; and the reporting of the accumulated results. Measurement of income, and matching of expense with revenues through the use of the accrual basis in the accounting system. Prerequisite: sophomore standing.

**231–4 Financial Accounting Analysis.** Introduction to valuation concepts of assets, liabilities, and ownership equities; control of cash, valuation of receivables, inventory valuations and price level changes, fixed asset valuation of receivables, inventory valuations and price level changes, fixed asset valuation and depreciation policy, equity accounting and concepts, bonds, partnerships, and corporations; basics in financial statement analysis—use of ratios and their interrelationship with other factors; funds and cash flow concepts. Prerequisite: 230.

**301–1 to 6 Accounting Readings.**

**330–4 Managerial Cost and Budgeting.** Control concepts, essentials of job order and process costing; budgets and budgeting for planning and control, standards and flexible budgets and use of “exception” principle through variance analysis; control of fixed costs, relevant cost analysis for managerial decision making, capital planning. Prerequisite: 231.

**331–4 Principles of Income Taxation.** Study of the Federal Income Tax laws as they affect individuals, partnerships, corporations, estates, and trusts, in determination of the taxable income for computing the tax liability due. Prerequisite: 231.

**341–4 Cost Accounting Principles.** Comprehensive study of job order and process cost systems, related joint and by-product costing, and estimated cost procedures. Prerequisite: 231.

**351a–4 Accounting Theory and Problems I.** Comprehensive study of the asset accounts, their valuation, presentation, and preservation. Prerequisite: 231.



**351b-4 Accounting Theory and Problems II.** Comprehensive study of the equity accounts, their valuation, presentation, etc. Prerequisite: 351a.

**410-4 Accounting Concepts.**

**442-4 Advanced Cost Accounting.** Comprehensive study of budgeting concepts, standard costing and analysis of variances, decision making with alternatives, planning of capital acquisitions, direct costing, relevant cost concepts, and distribution cost problems. Prerequisite: 341.

**453-4 Advanced Accounting Problems.** Comprehensive study of problems in consolidation of financial statements, partnerships dissolution and liquidation, consignment, installment sales, and other advanced accounting topics. Prerequisite: 351b.

**456-4 Auditing.** Study of the concepts, principles, and practices of auditing, including ethics, professional standards, internal control, preparation of audit working papers, audit reports, and related services. Prerequisites: 351b and 442.

**458-4 Accounting Systems.**

**461-4 Advanced CPA Problems.**

### Aerospace Studies

**301-3, 302-3, 303-3 Aerospace Studies 3 (c); Growth and Development of Aerospace Power (e).** Professional Officer Course. A study of the nature of war, the growth and development of aerospace power, the United States Air Force, astronautics and space operations, and the future development of aerospace power. Involves specific exercise of written and spoken communication skills. Requires three hours lecture-seminar; in some cases a one hour leadership laboratory is also required. Prerequisite: satisfactory completion of the GMC or six week field training course.

**350-2 Aerospace Studies.** A study of flight regulations, weather, and navigation. 4 hours lecture, demonstration-performance. Prerequisite: enrollment in AFROTC Flight Instruction Program or consent of PAS.

**351-3, 352-3, 353-3 Aerospace Studies 4. Professional Officer Course.** A study of professionalism, leadership, and management. Includes professional responsibilities, the military justice system, leadership theory, functions and practices, management principles and functions, problem solving, and management tools, practices, and controls. Three hours lecture-seminar; in some cases one hour leadership laboratory. Prerequisites: 301, 302, and 303, or consent of PAS.

### American Studies

**398-4 Seminar in American Studies.** A study of American culture with a view towards crossing the boundaries of traditional disciplines. Prerequisite: senior standing.

### Anthropology

**GSB 201a-4 The Individual and His Cultural Environment.**

**304-4 The Origins of Civilization.** The conditions that produced the early high culture of both Old and New Worlds. A study of the complex environmental and cultural factors that led to the rise and fall of early civilizations.

**305-9 (3,3,3) Peoples and Cultures of the World I.** The biological and cultural history of man in (a) North America, (b) Asia, and (c) Oceania from early times to the present.

**GSB 351b-3 Cultural Background of Developing Africa.**

**GSA 365-3 Human Origins.**

**GSB 366-3 The Growth of Culture.**

**400-4 Man and Culture.** The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on the anthropological point of view.

**404-4 Primitive Art and Technology.** The development of man as a tool-using and art-loving being. Artistic and technological traditions of non-Western peoples, past and present.

**405-4 Social Anthropology.** A comparative approach to the organizational

features of human groups. Functional aspects and distributions of kinship, political, religious, and economic systems.

**408—4 History of Anthropological Thought.** The growth of anthropology to about 1860, followed by a more intensive survey of the concepts and ideas of anthropology during the past hundred years.

**409—4 Anthropology and Modern Life.** The applications of anthropological principles to the solution of problems of the modern world. Contributions of anthropology to the work of the educator, social worker, administrator, business man, government official, and other specialists dealing with man in Western and non-Western cultures.

**416—4 Culture Change.** Examination of long and short range culture change, acculturation process and innovation, theory and method in study of culture change.

**430—4 Archaeology of North America.** An introduction to the methods of archaeology and a survey of prehistoric Indian cultures north of Mexico, with particular emphasis upon the cultures of the Mississippi Valley.

**483—3 to 18 Individual Study in Anthropology.** Guided research upon anthropological problems. Should consult chairman before enrolling.

**507—9 (3,3,3) Pro-seminar in Social Anthropology.**

**508—8 (4,4) Pro-seminar in Cultural Anthropology.**

### Applied Science

**101—9 (3,3,3) Graphics.** (a) Basic principles of graphic communications. Pictorial projection, sections and conventions, dimensioning auxiliary views, freehand lettering, and sketching. (b) Graphical solution of problems involving the understanding of the space relationships of points, lines, and planes; intersections and developments. (c) Auxiliary views, threads and fasteners, dimensioning. Laboratory. Must be taken in a,b,c sequence.

**420—3 Digital Computers in Research.** Basic foundations used in operations research. An intensive study in the use of digital computers as related to topics such as probability and statistics, matrices, game theory, Monte Carlo techniques, distribution and scheduling problems, and simulation. Prerequisite: Mathematics 225.

**523—3 Digital Simulation Techniques.**

**524—6 (3,3) Linear and Non-Linear Programming.**

**525—3 Analog and Digital Methods.**

**526—3 Simulation and Data Processing.**

**531—8 (4,4) Operations Analysis and Synthesis.**

**533—3 Program Evaluation and Review Techniques.**

**560—8 (4,4) Automatic Control Theory.**

### Art

Art Education Courses: 300, 365, 408, 466, 560, 566.

Art History Courses: 225, 345, 346, 347, 369, 571.

Studio Courses: 100, 202, 305, 310, 312, 325, 358, 393, 401, 405, 406, 416, 420, 426, 501, 502, 511, 520.

**100—15 (5,5,5) Basic Studio.** A studio course in visual fundamentals emphasizing the ways in which art may be structured. Studio experience in two- and three-dimensional materials. Must be taken in a,b,c sequence.

**202—15 (5,5,5) Intermediate Studio.** An extension of Basic Studio experiences through intensified study of such specific studio disciplines as drawing, painting, sculpture, ceramics, and printmaking. Must be taken in a,b,c sequence. Prerequisite: 100—15.

**225—9 (3,3,3) History of World Art.** A study of painting, sculpture, and architecture from prehistoric to modern times. Emphasis is placed upon the major periods and great styles in relation to their geographical and social backgrounds. Open to all students during the junior or senior year, with consent of the faculty. (a) The art and architecture of ancient and classical man. (b) Art of the medieval epoch. (c) Art from the Renaissance to the present.

**300—12 (4,4,4) Art Education.** Theory and practice of art activities in the elementary schools. Designed for elementary education students.



- 305-12 (4,4,4) Advanced Ceramics.** Intensive study of ceramics as an art form. Prerequisite: 202-15.
- 310-12 (4,4,4) Painting.** Intensive study of painting as a medium of expression. Individual rather than group problems are engaged. Prerequisite: 202-15.
- 312a-4 Advertising and Graphic Design.** Deals with the basic tools of the advertising designer. Introduction to styles of type, lettering techniques, layout problems, and reproduction processes for advertisements and illustrations in papers, magazines, posters, television, and pamphlets. Creative exercises in designing with type and illustrations.
- 312b-4 Advertising and Graphic Design II.** Introduction to the problems of the advertising designer, with special emphasis on typography. Includes type-setting, proof printing, engraving, and lithographic processes. Application of the principles of design to a variety of contemporary projects, with professional standards and performances exacted. Creative and technical class work is supplemented by field trips to printing firms and advertising design studios.
- 325-12 (4,4,4) Studio.** No more than 4 hours per quarter. Prerequisites: 8 hours in medium of choice (except where such courses do not exist) and consent of instructor.
- 345-3 Art of the Nineteenth Century.** The meaning and varieties of art from the time of the French Revolution until late Impressionist art of the 19th century. Relations to the social environment are interpreted.
- 346-3 Medieval and Renaissance Art.** A study of the development of art in Europe from the early Christian period through the Renaissance. Prerequisite: GSC 351-12.
- 347-9 (3,3,3) Ancient Art.** An interpretation of painting, sculpture, and architecture from prehistoric times through the ancient Egyptian, Mesopotamian, Greek, and Roman civilizations, presented with consideration of the general cultural settings of the peoples involved.
- 358-12 (4,4,4) Prints.** Introduction to printmaking as a medium. Studio projects in intaglio, relief, and planographic processes. Prerequisite: 202-15.
- 365-4 Art Education in the Secondary Schools.** For art education students preparing to teach at secondary level; includes studio projects designed to develop awareness of technical and aesthetic needs of high school students, reading and discussion of literature, planning of curriculum. Fall quarter only.
- 369-3 Primitive Art.** A study of the arts of "primitive" peoples of Africa, the Pacific, and the Americas. Characteristic works are interpreted in context with the general conditions of primitive society. The significant influences of primitive art on modern painting and sculpture.
- 393-12 (4,4,4) Sculpture.** Problems in modeling, carving, casting, and construction. Prerequisite: 202-15.
- 401-2 to 12 Research in Painting.** Prerequisite: 310-12.
- 405-2 to 12 Studio in Sculpture.** Prerequisite: 393-12.
- 406-2 to 12 Studio in Painting.** Prerequisite: 310-12.
- 408-4 Art Education for Elementary Teachers II.**
- 410-2 to 12 Research in Prints.** Prerequisite: 358-12.
- 416-2 to 12 Studio in Prints.** Prerequisite: 358-12.
- 420-2 to 12 Research in Pottery.** Prerequisite: 305-12.
- 426-2 to 12 Studio in Pottery.** Prerequisite: 305-12.
- 441-2 to 6 Studio in Drawing.**
- 460-2 to 12 Research in Art Education.**
- 466-2 to 12 Studio in Art Education.**
- 483-3 to 12 Research in Art History.**
- 501-2 to 12 Seminar in Painting.**
- 502-2 to 12 Seminar in Sculpture.**
- 511-2 to 12 Seminar in Prints.**
- 520-2 to 12 Seminar in Pottery.**
- 560-2 to 12 Seminar in Art Education.**
- 566-2 to 12 Research in Art Education.**
- 571-2 to 5 Readings in Art History.**
- 599-5 to 9 Thesis.**

## Biology

- 301-11 (4,4,3) Concepts at the Cellular Level. (a,b) Cell Structure and Function.** Structure, organization, and function of cells, organelles, and macromole-



cules. Three lecture and two laboratory hours per week. (c) Developmental Biology. Morphogenesis, differentiation, growth, and regeneration in plants and animals. Three lecture hours per week. Must be taken in a,b,c sequence. Prerequisites: GSA 201a,b and Chemistry 111a,b,c.

**302 (5,5,5,5) Concepts at the Organism Level.** The form, function, classification, and phylogeny of organisms. (a) Animal life. Sponges through mammals. Two lecture and six laboratory hours per week. (b) The lower organisms. Viruses, bacteria, algae, molds, and protozoa. Three lecture and four laboratory hours per week. (c) Plant life. Bryophytes through flowering plants. Three lecture and four laboratory hours per week. Prerequisite for a,b,c: GSA 201a,b. (d) Physiology. Function and regulation in plants and animals. Four lecture and three laboratory hours per week. Prerequisites for d: 302a,c and Chemistry 111a,b.

**303-12 (4,4,4) Concepts at the Population Level.** (a) Genetics. Mechanism of inheritance, gene action, and the origin of genetic diversity. Three lecture and two laboratory hours per week. (b) Evolution. Evolutionary change including population genetics, ecological factors, selection, and speciation. Four lecture hours per week. (c) Ecology. Life and the environment; energy relationships and succession. Three lecture and four laboratory hours per week. Saturday field trips required. Must be taken in a,b,c sequence. Prerequisite: 201a,b.

**GSA 310-3 Human Anatomy and Physiology.**

**310-2 Human Anatomy and Physiology Laboratory.** To be taken concurrently with GSA 310. Four laboratory hours per week. Intended for nursing and physical education majors. No credit toward a secondary concentration in biology. Prerequisite: GSA 201a,b.

**311-5 Applied Bacteriology.** A treatment of cytology, theories and techniques of staining, physiology and classification of microorganisms and their medical relationships. Three lecture and four laboratory hours per week. No credit toward a secondary concentration in biology. Prerequisite: GSA 201a,b.

**GSA 314 Man's Genetic Heritage.**

**390 0 to 1 (0,0,1) Undergraduate Biology Seminar.** Presentations by faculty, visiting investigators, and students. Students give one seminar per year. May be repeated. Prerequisite: junior or senior standing.

**410-4 Advanced Genetics.** A study of quantitative inheritance, chromosomal evolution and organization, the regulation of gene action, and radiation genetics. Three lectures and one laboratory per week. Prerequisites: 303a and GSD 114d.

**415-4 Experimental Embryology.** A survey of the literature from the beginning of experimental embryology; the laboratory includes classical and modern techniques. Two lectures and two laboratories per week. Prerequisites: 301c and organic chemistry or concurrent registration. Limited to ten students.

**420-4 Plant Synecology.** The structure, development, and causative factors in the distribution of plant communities. Field techniques for quantitative measurements and interpretations of successful dynamics are stressed. Three lectures and one laboratory per week. Saturday field trips required. Prerequisite: 303c.

**423-4 Principles of Parasitism.** Principles dealing with parasitic relationships. Includes study of types of association, morphologic and physiologic adaptations of parasites, defensive mechanisms, immunity, and specificity. Selected examples from the plants and animals are used to illustrate the general principles and life histories. Two lectures and two laboratories per week. Prerequisite: 302a,b,c.

**435-4 Ethology.** A survey of animal interactions and the response of animals to environmental stimuli. Three lectures and one laboratory per week. Prerequisite: 302a.

**444-4 Integrative Physiology.** Mechanisms of response and integration with emphasis on the role of the nervous systems. Three lectures and one laboratory per week. Prerequisites: 301a, 302a, and organic chemistry or concurrent registration.

**447-4 Topics in Plant Physiology.** Photosynthesis, mineral nutrition of plants, water regime, growth and movement of plants. Two lectures and two laboratories per week. Prerequisites: 302c and Chemistry 111a,b,c.

**455-4 Plant Anatomy.** Developmental and comparative studies of seed plants including structure of vegetative and reproductive parts and embryology. Three lectures and one laboratory per week. Prerequisite: 302c.

**458-5 Functional Morphology of Vertebrates.** The phylogenetic approach to

comparative form, function, and development of vertebrate organisms. Two lectures and three laboratories per week. Prerequisite: 302a.

**470—4 Field Botany.** Taxonomy, natural history, and distribution of local plants. Two lectures and two laboratories per week. Field trips cost \$10-\$25 per student. Prerequisite: 302c.

**480—4 Field Zoology.** Taxonomy, natural history, and distribution of local animals. Two lectures and two laboratories per week. Field trips cost \$10-\$25 per student. Prerequisite: 302a.

**485—4 Ichthyology.** Relationships, ecology, behavior, physiology, and anatomy of fishes. Field study of local fauna is stressed. Two lectures and two laboratories per week. Saturday field trips required. Prerequisite: 302a or consent of instructor.

**486—4 Herpetology.** A study of amphibians and reptiles, their evolution, relationships, morphology, and behavior. Two lectures and two laboratories per week. Saturday field trips required. Prerequisite: 302a,c or consent of instructor.

**488—4 Mammalogy.** Taxonomy, natural history, and evolution of mammals. Two lectures and two laboratories per week. Prerequisite: 302a.

**493—2 to 8 Research in Biology.** Research on biological problems. No credit toward a secondary concentration in biology. Prerequisites: senior standing and consent of faculty.

**497—2 to 8 Biology Field Studies.** A trip of four to eight weeks to acquaint students with animals or plants in various environments and/or with methods of field study, collection, and preservation. Arrangements made in advance of term; travel costs borne by the student. No credit toward a secondary concentration in biology. Prerequisite: consent of faculty.

**498—2 to 8 Honors in Biology.** Research on biological problems. No credit toward a secondary concentration in biology. Prerequisites: 4.25 grade-point average, senior standing, and consent of faculty.

**501—2 Research Orientation.**

**504—9 (3,3,3) Instructional Innovation in Secondary School Biology.**

**511—4 Population Genetics.**

**512—4 Cytogenetics.**

**521—4 Limnology.**

**524—3 Biogeography.**

**545—3 Physiology of Sense Organs.**

**547—3 Mineral Nutrition of Plants.**

**553—4 Morphology of the Spermatophytes.**

**580—4 Advanced Invertebrates.**

**581—4 Helminthology.**

**590—3 (1,1,1) Graduate Biology Seminar.**

**591—1 to 4 Readings in Biology.**

**593—1 to 4 Special Problems in Biology.**

**599—2 to 9 Research and Thesis.**

## Business Communications

**390—4 Business Communications.** Designed to improve understanding of the vital role of effective communication in business and to develop skill in business writing with emphasis on the preparation of reports. Provides an opportunity to learn effective use of a business library; to collect and interpret data; to present information in a logically organized and acceptable form. Prerequisites: GSD 101b and concurrent registration in General Business Administration 340.

## Business Education

**201—9 (3,3,3) Typewriting.** Mastery of the keyboard, speed and accuracy in the touch operation of the typewriter, and skill and knowledge needed for vocational and personal uses. (a) Prerequisite: may not be taken for credit by students who have had previous high school or other formal instruction in typewriting. (b) Prerequisite: 201a or one semester of other formal instruction in typewriting and the ability to type at least 30 words per minute. (c) Prerequisite: 201b or two semesters of other formal instruction in typewriting



and the ability to type at least 40 words per minute and to prepare simple business correspondence, tables, manuscripts, and forms.

**221-12 (4,4,4) Shorthand and Transcription.** Study of Gregg shorthand theory and the development of skill and knowledge required for dictation and transcription. (a) Prerequisite: may not be taken for credit by students who have had previous high school or other formal instruction in shorthand. (b) Prerequisite: 221a or one semester of other formal instruction in shorthand-transcription. (c) Prerequisites: 221b or two semesters of other formal instruction in shorthand-transcription and the ability to take new-matter dictation at 60 words per minute for three minutes.

**241-2 Duplicating.**

**304-3 Advanced Typewriting.** Development of advanced skills in typing business correspondence, manuscripts, forms, and tables; preparation of copy from rough draft materials. Prerequisites: 201c or three semesters of other formal instruction in typewriting and the ability to type at least 50 words per minute and to prepare business correspondence, tables, and manuscripts.

**324a-4 Advanced Shorthand and Transcription I.** The development of high-level dictation and transcription skill and knowledge. Prerequisites: 221c or three semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriter new-matter dictation taken at a sustained rate of 80 words per minute.

**324b-4 Advanced Shorthand and Transcription II.** A continuation of 324a. Prerequisites: 324a or four semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriters new-matter dictation taken at a sustained rate of 90 words per minute.

**327-4 Office Theories and Practice.**

**341-4 Office Machines.** A study of the capabilities and operational characteristics of basic types of office machines; a consideration of appropriate uses of each kind of machine. Laboratory practice required. A unit in data processing gives opportunity for key-punch instruction.

**351-4 Foundations of Business Education.** The role of the business teacher in the secondary and post-secondary school. An analysis of business education objectives and curriculum. A survey of trends and external influences as they affect business education.

**403-3 Teaching Typewriting.** Instructional procedures, skill-building principles and techniques, selection and preparation of instructional materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 304.

**404-3 Teaching Shorthand and Transcription.** Instructional procedures, skill-building principles and techniques, selection and preparation of instructional materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 324a.

**405-4 Teaching General Basic Business Subjects.** Instructional procedures, analysis and selection of materials, preparation of teaching units, evaluation of pupil performance.

**406-4 Teaching Office Practice.** Instructional procedures, skill-building, evaluation of teaching materials, and pupil performance for office practice and office machines. Prerequisite: 341 or equivalent.

**408-3 Teaching Data Processing and Bookkeeping.** Instructional procedures, analysis and selection of materials, preparation of a teaching unit in data processing, and evaluation of pupil performance.

**414-6 (3,3) Organization and Administration of Cooperative Vocational Business Education Programs.** Philosophy and objectives of cooperative vocational programs, methods of selecting students and work stations, placing and supervising students on part-time jobs, preparation of instructional materials, job analyses, conducting related information courses, evaluating workers and work stations, advisory committees, and public relations aspects of cooperative programs.

**415-6 Supervised Business Experience and Related Study.** Classroom study of the principles and problems of coordinating in-school and cooperative vocational business education programs, with analysis and evaluation of on-the-job experiences of the members of the class in relation to their future work as coordinators and vocational teachers.

**426-4 Office Management.** The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities and layout of the office; office services, procedures, standards, and controls.



- 427-4 Records Administration.** The development of records management from its inception, and the recognition of the need for paper work management. Stress on the use of information management techniques in support of organization management, control, and evaluation. Each phase of the life of records from creation to disposal or permanent retention. Potentials of data processing, microphotography, new developments in information handling equipment.
- 428-4 Systems and Procedures.** A problems approach to the office systems-procedures function in the modern business firm; seminar and laboratory work on improvement of systems and procedures, administrative information and paperwork engineering; theory of office-systems design; systems administration and work simplification. Prerequisite: 426.
- 500-4 Principles and Problems of Business Education.**
- 502-4 Research in Business Education.**
- 503-4 Tests and Measurements in Business Education.**
- 505-2 to 8 Workshop in Business Education.**
- 507-4 Applications and Fundamentals of Data Processing in Business Education.**
- 508-4 Administration and Supervision in Business Education.**
- 509-4 Improvement of Instruction in General (Basic) Business Subjects.**
- 510-4 Improvements of Instruction in Secretarial Subjects.**
- 590-2 to 5 Readings in Business Education.**
- 591-2 to 5 Individual Research in Business Education.**
- 599-1 to 9 Thesis.**

## Chemistry

- 110-4 General and Inorganic Chemistry.** A brief introduction to the structure of the atom and chemical bonding; acids, bases, salts, and pH; and a study of the properties and reactions of some of the more common elements. Three lecture and three laboratory hours per week. Not applicable to a concentration or to a secondary concentration in chemistry.
- 111-15 (5,5,5) Chemical Principles and Inorganic Chemistry.** (a) Nature of matter, gas laws, periodic classification, laws of combination, chemical calculations. Students with an excellent record in high school chemistry may be able to start with (b). Three lecture, one quiz, and three laboratory hours per week. Prerequisites: high school algebra and geometry or equivalent; (b) solutions, kinetics, equilibrium, electrochemistry, and chemistry of the elements. Three lecture, one quiz, and three laboratory hours per week. Prerequisite: 111a or strong background in high school chemistry; (c) continuation of chemistry of the elements, ionic equilibria, and qualitative analysis. Three lecture and six laboratory hours per week. Prerequisite: 111b.
- 235-5 General Quantitative Analysis.** Introduction to theories and methods of volumetric and gravimetric techniques. Three lecture and six laboratory hours per week. Prerequisite: 111c.
- 240-4 Organic Chemistry.** A survey course not open to those concentrating in chemistry. An introduction to aliphatic and aromatic compounds with emphasis on those of biological importance. Three lecture and three laboratory hours per week. Prerequisite: 110 or 111b.
- 305-10 (5,5) Organic Chemistry, Preprofessional.** For secondary concentration in chemistry and preprofessional students. Three lecture and six laboratory hours per week. Prerequisite: 111c.
- 311-3 Inorganic Chemistry.** Introduction to theories of bonding and structure, symmetry, complexes, and less familiar elements. Three lectures per week. Prerequisite: 111c.
- 336-4 Analytical Chemistry.** Continuation of volumetric and gravimetric theories and methods with an introduction to instrumental methods. Two lecture and six laboratory hours per week. Prerequisite: 235.
- 341-15 (5,5,5) Organic Chemistry.** Three lecture and six laboratory hours per week. Must be taken in a,b,c sequence. Prerequisite: 111c.
- 375-0 to 3 Chemistry Seminar.** One lecture per week. Prerequisite: senior standing.
- 411-4 Intermediate Inorganic Chemistry.** Modern inorganic chemistry including atomic structure, chemical bonds, complexes, and chelate structures; with emphasis on physical chemical principles. Four lecture hours per week. Prerequisite: 460 or 461b. May be taken concurrently.

**412-3 Inorganic Preparation.** A study of several important types of inorganic syntheses. One lecture and six laboratory hours per week. Prerequisites: 235 and 305b or 341c.

**432-8 (4,4) Instrumental Analytical Measurements.** Theory and practice of instrumental analytical measurements, including spectrophotometric, electro-analytical, and chromatographic methods. Two lecture and six laboratory hours per week. Prerequisite: 461b. May be taken concurrently.

**433-3 Intermediate Quantitative Analysis.** A study of the analysis of complex materials, with emphasis on separations, functional group analysis, and instrumental applications. Two lecture and three laboratory hours per week. Prerequisites: 432a or b and 461c.

**444-3 Organic Reactions.** An intermediate course with emphasis on mono-functional compounds. Additional topics, not included in elementary courses. Three lecture hours per week. Prerequisite: 341c.

**446-4 Qualitative Organic Analysis.** A systematic study of the separation and identification of organic compounds by a procedure based on solubility and classification reagents. Two lecture and six laboratory hours per week. Prerequisite: 305b or 341c.

**447-3 Quantitative Organic Chemistry.**

**451-8 (4,4) Biochemistry.** (a) Carbohydrates, fats and related substances, proteins and amino acids, enzymes, digestion, absorption, and detoxication. (b) The blood and lymph; acid-base regulation; metabolism of carbohydrates, lipids, and proteins; urine; calorimetry and energy metabolism; nutrition, vitamins, and hormones. Three lecture and three laboratory hours per week. Must be taken in a,b sequence. Prerequisites: 235 and 305b or 341c.

**460-5 Theoretical Chemistry.** Traditional aspects of physical chemistry without the requirement of calculus. Four lecture and three laboratory hours per week. Prerequisites: 235, 305b or 341c, and one year of physics or consent of instructor.

**461-12 (4,4,4) Physical Chemistry.** (a) Gases, liquids, solids, solutions, and homogeneous and heterogeneous equilibria. Three lecture and three laboratory hours per week. (b) Chemical kinetics, electrical conductance, electromotive force, and electrolytic equilibrium. Three lecture and three laboratory hours per week. (c) Chemical Thermodynamics, the quantum theory, nuclear structure, photochemistry, atomic and molecular structure. Three lecture and three laboratory hours per week. Must be taken in a,b,c sequence. Prerequisites: 235 (concurrent), 341c, 12 hours of physics, and one year of calculus.

**464-3 Intermediate Physical Chemistry.** Intermediate between the first year of undergraduate physical chemistry and advanced physical chemistry. Three lecture hours per week. Prerequisite: 461c.

**490-2 Chemical Literature.** A study description of the various sources of chemical information and the techniques for carrying out literature searches. Two lecture hours per week. Prerequisites: 235, 305b or 341c, reading knowledge of German or consent of instructor.

**496-2 to 6 Chemical Problems.** Investigation of relatively simple problems under the direction of a staff member. Prerequisites: senior standing, concentration in chemistry with 4.0 average, and consent of chairman.

**511-9 (3,3,3) Advanced Inorganic Chemistry.**

**517-3 Laboratory Techniques in Inorganic Chemistry.**

**519-2 to 30 (2 to 6 per quarter) Advanced Topics in Inorganic Chemistry.**

**531-3 Theory of Quantitative Analysis.**

**539-2 to 30 (2 to 6 per quarter) Advanced Topics in Analytical Chemistry.**

**541-3 Advanced Organic Chemistry.**

**547-3 to 6 Advanced Laboratory Preparations in Organic Chemistry.**

**549-2 to 30 (2 to 6 per quarter) Advanced Topics in Organic Chemistry.**

**561-3 Chemical Thermodynamics.**

**562-3 Atomic and Molecular Structure.**

**569-2 to 30 (2 to 6 per quarter) Advanced Topics in Physical Chemistry.**

**575-1 to 3 Graduate Seminar.**

**597-3 to 15 Research and Thesis.**

### Comparative Literature

**300-12 (4,4,4) Survey of Comparative Literature.** (a) from Homer to Dante. (b) from Rabelais to Racine. (c) from Voltaire to Kafka.



**410-20 (4,4,4,4,4) Comparative Literature: Genres.** (a) lyric and epic poetry. (b) drama. (c) prose. (d) tragedy. (e) novel.  
**499-4 Traditional Themes of World Literature.** Prerequisites: any course in comparative literature and a course in English, foreign, or comparative literature.

### Counselor Education

**305-4 Educational Psychology.** Study of the learner and the learning process. Includes study of behavior, discipline, development, the school environment, application of learning theories, and methods of assessment. Prerequisite: GSB 201c.  
**420-4 Educational Statistics.** The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. Includes methods of organizing and presenting data, describing group performance, describing individual performance, model distributions, measure of relationship, measures of reliability, and tests of significance. Prerequisite: 305.  
**422-4 Educational Measurements I.** Study of the philosophy and techniques of measurements. Special attention to the construction and use of teacher-made tests. Prerequisite: 305.  
**426-4 Individual Inventory.**  
**483-6 Community Programs for the Prevention of Juvenile Delinquency.** Analysis of delinquency prevention in community programs administered by the public schools, social welfare, governmental agencies. A study of the various categories of juvenile delinquency is applied to a critique of existing programs and to the development of experimental programs. The roles of professional workers pertinent to such programs is delineated with special reference to the public school administration, counselor, the social workers, the court, probation officers, and police. Prerequisite: consent of instructor.  
**485-4 to 9 Workshop in Educational Utilization of Community Resources.**  
**501-2 to 8 Special Research Problems.**  
**511-4 Educational Implications of Learning Theories.**  
**515-4 Psychological Aspects of Education.**  
**520a-4 Educational Statistics and Experimental Design.**  
**520b-4 Educational Statistics and Experimental Design.**  
**522-4 Educational Measurement II.**  
**525-4 School Behavior Problems and Their Prevention.**  
**526-4 Techniques of Individual Guidance.**  
**535-4 Introduction to Individual Measurement.**  
**536a-4 Appraisal of Intelligence: Child.**  
**536b-4 Appraisal of Intelligence: Child and Adult.**  
**536c-4 Appraisal of Intelligence.**  
**537-4 Counseling Theory and Practice I.**  
**538-4 Counseling Theory and Practice II.**  
**541-4 Occupational Information and Guidance.**  
**542-4 Basic Principles of Guidance.**  
**543-4 Guidance Through Groups.**  
**545-4 Seminar in Guidance.**  
**545a-2 to 4 Seminar: Problems in Guidance.**  
**545b-2 to 4 Seminar: Learning and Communication.**  
**545f-2 to 4 Seminar: Pupil Adjustment.**  
**545j-2 to 4 Seminar: Organization and Administration.**  
**562a-4 Child Development in Education.**  
**562b-4 Adolescent Development in Education.**  
**575c-1 to 2 Practicum in Guidance.**  
**576-4 to 8 Practicum in School Personnel Work.**

### Economics

**200-4 Macroeconomics.** An introduction to national economic systems with attention to the meaning and measurement of national income, and the causes of fluctuations therein. National economic objectives and policies, including the distribution of income, the level of employment factors affecting stability and growth, the role of taxation. Prerequisite: sophomore standing.



- 201-4 Microeconomics.** Principles and characteristics of the market economy. Theory of the business firm, supply, demand, and prices. Analysis of earnings of productive resources, including wages, rent, interest, and profit. Introduction to market structure and public policy. Prerequisite: sophomore standing.
- 300-4 The Monetary System and Economic Policy.** Study of relationships between money, credit, prices, and economic activity. How the banking system creates money; the Federal Reserve System. Introduction to public finance and fiscal policy; the role of public finance in full employment policy. Introduction to international financial relationships. Prerequisite: 200.
- 303-4 Introduction to Economics (MBA).** Survey of economic principles including national income, money and banking, fiscal policy, economic growth, prices, theory of the firm, labor, rent, interest, and profits. Does not carry graduate credit. Restricted to MBA students.
- 310-4 Labor Problems.** Survey of labor force, wage and employment theory, unemployment including economic insecurity, trade unionism, and collective bargaining from the standpoint of public policy. Prerequisites: 200 and 201.
- GSB 311-3 Economic Development of the United States.**
- GSB 312-3 Comparative Economic Systems.**
- 317-4 Economic History of the United States.**
- 330-4 Public Finance I: National.** The role of government in the economy, optimum levels of public activities, government budgets, and national income; financing of government expenditures, principles of taxation, examination of fiscal policy. Prerequisite: 300.
- 411-4 Collective Bargaining and Dispute Settlement.**
- 416-4 Money and Banking II.** Evolution of money systems, theories of effect of money supply on national income, debt, asset-holdings, etc.; relationships of money supply to specific industries and key economic variables and considerations. Prerequisite: 300.
- 418-4 Economic History of Europe.**
- 429-4 International Economics.** Intensive treatment of the principles of international economics with special emphasis on the classical and modern theories of international trade. Income effects and balance of payment theory. Prerequisites: 200 and 201.
- 431-3 Public Finance II. State and Local.** Prerequisite: 330.
- 432-3 Fiscal Policy of the United States.**
- 436-3 Government and Labor.** A study of labor relations and legislation considering both constitutional and economic aspects. Prerequisites: 200 and 201.
- 440-4 Intermediate Micro Theory.** An intensive treatment of price and income theory with emphasis on degrees of price and other competition. Prerequisite: 201.
- 441-4 Intermediate Macro Theory.** Basic analytical concepts of the modern theory of aggregative income. Prerequisite: 200.
- 450-6 (3,3) History of Economic Thought.** The development of economic thought; (a) ancients to 1850; (b) 1850 to present. Must be taken in a,b sequence. Prerequisites: 200 and 201.
- 465-4 Mathematical Economics I.**
- 470-3 Business Cycles.** Major business fluctuations in the United States, prices, employment, production, credit, inflation, and deflation, and government action during the cycles. Prerequisite: 300.
- 473-4 Business Enterprises and Public Policy.**
- 481-3 Comparative Economic Systems.** Capitalism, socialism, fascism, and other forms of the economy. Prerequisites: 200 and 201.
- 500-4 to 8 Economic Seminar.**
- 512-4 Labor Economics.**
- 517-4 Monetary Theory and Policy.**
- 519-4 Economic Growth.**
- 526-4 Managerial Economics.**
- 533-4 Public Finance Theory and Practice.**
- 541-4 National Income Theory.**
- 542-4 Price Theory.**
- 599-1 to 9 Thesis.**

### Educational Administration

**GSB 331-3 The American Educational Systems.**

**355-4 Philosophy of Education.** The philosophical principles of education and

the educational theories and agencies involved in the work of the schools. Prerequisite: Counselor Education 305.

**420-4 Legal Basis of American Education.** Particular emphasis is placed on common law principles.

**431-4 History of Education in the United States.** An historical study of the problems of American education which have relevance to contemporary education.

**432-4 Public Opinion: Propaganda and Education.** Analysis and classification of propaganda. Designed to show how public opinion is formed by a use of current materials from the different channels of communication. Differences between propaganda and indoctrination.

**434-4 Administrator's Workshop.** A special program for the consideration of administrative problems pertinent to superintendents, high school principals, and elementary school principals.

**456-4 School Supervision.** The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching.

**485-4 to 9 Educational Utilization of Community Resources.** A workshop providing an opportunity for teachers to acquire a detailed knowledge of community resources, construct teaching units utilizing these resources, and assemble files of resource materials dealing with economic and social problems of the community.

**490-4 to 12 International Field Study in Comparative Education.** International field study of selected aspects of national systems of education examined in their social matrix. By means of direct observation, conferences, lectures, and seminars, the advanced education student is helped to gain a mature perspective on American education through comparison and contrast with educational systems of other societies to critically evaluate American educational patterns in light of observed alternatives, and to develop fresh curricular approaches in the area of international understandings through an examination of other cultural patterns. With the permission of the instructor this course may be repeated with credit.

**500-4 Research Methods.**

**501-4 Seminar in Educational Administration.**

**502-4 Seminar in Comparative Education.**

**503-0 to 4 Seminar in Philosophy of Education.**

**504-4 Seminar in History of European Education.**

**506-4 Seminar: Curriculum in Relation to American Culture.**

**511-12 (4,4,4) Internship Practicum.**

**520-4 Illinois School Law.**

**524-4 School Administration.**

**525-4 Personnel Administration.**

**533-4 School Buildings.**

**534a-4 School Finance.**

**534b-4 School Business Administration.**

**554-4 Contrasting Philosophies of Education.**

**556-4 Seminar in Educational Supervision.**

**560-4 Curriculum.**

**563-4 Workshop in School Public Relations.**

**565-4 The Junior College.**

**575a-k-2 to 4 each Individual Research.**

**596-5 to 9 Independent Investigation.**

**597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis.**

### Elementary Education

**203-3 Understanding the Elementary School Child.** Concepts needed to understand the child in the elementary school situation. Two hours lecture and two hours observation. Prerequisite: GSB 201c.

**314-4 Elementary School Methods.** The fundamental principles of education, the interpretation of current educational theory and practice, the processes of teaching and learning involved in elementary education. Prerequisites: Counselor Education 305 and Educational Administration 355.

**316-4 Kindergarten-Primary Methods and Curriculum.** Philosophy and principles underlying the teaching of four-to-eight-year-olds. Emphasis upon or-



ganization, equipment, materials, and methods for promoting growth of young children. Prerequisites: Counselor Education 305 and Educational Administration 355.

**337-4 Reading in the Elementary Schools.** The principles of reading, factors that condition reading, together with grade placement of aims and materials; diagnostic and remedial treatment. Prerequisites: Counselor Education 305, Educational Administration 355 and Elementary Education 314.

**350d-8 to 12 Kindergarten-Primary Student Teaching.** Prerequisites: Counselor Education 305, Educational Administration 355, Elementary Education 316, and approval of elementary education adviser.

**350e-4 to 8 Advanced Kindergarten-Primary Student Teaching.** Prerequisite: 350d.

**351a, 351b, 351c-4 to 16 Elementary Student Teaching.**

**351d-8 to 16 Elementary Student Teaching.** Prerequisites: 314, Counselor Education 305, Educational Administration 355, other courses listed in each area of concentration, and approval of elementary education adviser.

**351e-4 to 8 Advanced Elementary Student Teaching.** Prerequisite: 351d.

**413-4 Children's Literature.** Emphasizes types of literature, analysis of literary qualities, and selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Counselor Education 305.

**415-2 to 4 Improvement of Instruction in Arithmetic in the Elementary School.** Items to be taught, the grade placement of content, newer instructional practices and materials of instruction, and means of evaluating achievement. Prerequisites: 314 and GSD 112.

**437-4 Problems in Reading.** Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisites: 337 and senior standing. Not open to students having had 505.

**442-4 Science for the Elementary Teacher.** Study of content and methods of elementary school science.

**470-3 Workshop in Sex Education for Elementary Teachers.** Designed to encourage elementary school teachers to integrate sex education concepts into their teaching program. Current theories and knowledge concerning the psychosocial aspects of the maturation process are related to the content used for teaching pupils at various grade levels. Specialists in psychology, public health, and social welfare offer a multi-discipline approach to help teachers plan a program based upon characteristics and needs of pupils.

**505-4 Improvement of Reading Instruction.**

**507-2 to 4 Readings in Reading.**

**509-4 to 8 Practicum in Reading.**

**514-4 Organization and Administration of Reading Programs.**

**515-4 Special Problems in the Teaching of Arithmetic in the Elementary School.**

**518-2 to 4 Supervision of Student Teachers.**

**521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.**

**541-4 Curriculum Problems in Elementary School Science.**

**542-4 Language Arts in the Elementary School.**

**543-4 Teaching the Social Studies in the Elementary School.**

**557-4 The Elementary Principalship.**

**559-4 Workshop in Instructional Leadership in Elementary Education.**

**561-4 The Elementary School Curriculum.**

**575a-k-2 to 4 each Individual Research.**

**596-5 to 9 Independent Investigation.**

**597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis.**

## Engineering

**260-9 (3,3,3) Analytical Mechanics.** (a) Resultants of force systems, algebraic and graphical conditions of equilibrium of force systems; analysis of forces acting on members of trusses, forces due to friction; centroids. (b) Displacement, velocity and acceleration of a particle; translation, rotation; plane motion. (c) Solutions using the principles of force, mass and accelerations, work and energy, and impulse and momentum. Must be taken in a,b,c sequence. Prerequisite: Mathematics 150b or concurrent registration.



**300-9 (3,3,3) Thermodynamics.** (a) The study of fundamental energy concepts and the laws of thermodynamics, availability of energy, properties of gases, vapors, and gas-vapor mixtures, flow and non-flow processes. (b) Engine cycles and applications to internal combustion engines, gas turbines, steam turbines, jet devices, air compressors, and air engines. Combustion refrigeration and air conditioning. (c) Axiomatic thermodynamics, criteria for equilibrium; absolute temperature; Maxwell's relations; open systems; the phase rule; systems of one and two components; idealized systems; equations of state; systems involving chemical and electrochemical equilibrium. Must be taken in a,b,c sequence. Prerequisite: Mathematics 252a.

**311-9 (3,3,3) Engineering Materials.** (a) Stress and strain in the elastic as well as the plastic states. Failure theories. Elastic and plastic torsion. Thick cylinders and rotating discs. Energy methods. Beams on elastic foundations. Introduction to plates and shells. Limit design. (b) Mechanics of continua for elastic, plastic, viscoelastic, and creeping materials, limit analysis, applications to brittle, ductile, and transitional modes of fracture, to creep, fatigue, friction, and wear. Laboratory emphasizing student-planned projects. (c) Physical and chemical properties of all types of materials; influence of these properties on behaviour of materials under various structural, magnetic, dielectric, heat, and other environmental conditions. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 260a,b,c.

**343-9 (3,3,3) Engineering Design.** Projects of a research design or development nature. Student selects a problem, develops the theory for a solution, checks the theory experimentally, analyzes the data, and compares the results. Project from one to three quarters in length. Laboratory. Must be taken in a,b,c sequence. Prerequisites: 300 and 311.

**405-6 (3,3) Generalized Radiation.** A unified course in radiation theory, treating electromagnetic and mechanical radiation. Analysis of wave motion, properties of progressive waves, boundary conditions. Examples taken from radiation in fluids and elastic media, and from electromagnetic radiation. Prerequisite: Physics 305a,b.

**420-9 (3,3,3) Transport Phenomena.** (a) Mechanism of heat, mass and momentum transport on both molecular and continuum basis. Estimation of transport properties. Generalized equations of transport in one or three dimensional systems. (b) Interphase transport in isothermal and nonisothermal systems. Unsteady state transport problems in multicomponent systems. Mechanism ratio analysis. Analogy of mass, heat and momentum transfer. (c) Macroscopic balances, diffusion operations, penetration theory, simultaneous mass and heat transfer, equilibrium operations.

**423-3 Hybrid Computation.**

**460-8 (4,4) Engineering Analysis for Decision Making.**

## English

**300-4 Principles of English Grammar.** Required for English students. Others should take 391. Credit not allowed for both courses.

**302-12 (4,4,4) Survey of English Literature.** (a) to 1550, (b) 1550-1750, (c) after 1750. May be taken in any sequence.

**309-8 (4,4) Survey of American Literature.** (a) to 1860, (b) since 1860. May be taken in either sequence.

**GSC 313-3 Folklore.**

**320-4 Early Nineteenth-Century Poetry.**

**GSC 333-3 The Bible as Literature.**

**GSC 335-3 Studies in Short Fiction.**

**GSC 337-3 The English Language Heritage.**

**GSC 339-3 Classical Mythology and Its Influence.**

**365-4 Shakespeare.**

**390-3 Advanced Composition.** Expository writing.

**391-3 Usage in Spoken and Written English.** Usage and structure of English. Prerequisite to student teaching, except in English concentrations, which require 300.

**392-3 Professional Writing I.** Introductory course for undergraduates. Prerequisite to 492, but credit for the course does not constitute automatic admission to 492. Prerequisite: consent of instructor.

**400-4 Introduction to English Linguistics.** An introduction to the methods of

descriptive linguistics as applied to English: the phonemics, morphemics, and syntax of English. Recommended for those preparing to teach English.

**403-4 The History of the English Language.** A survey of the development of the language from Indo-European to modern English with special emphasis on Middle and Early Modern English changes.

**404-12 (4,4,4) Middle English Literature.** (a) Middle English literature excluding Chaucer; (b) Chaucer: early poems and *Troilus*; (c) Chaucer: *Canterbury Tales*. May be taken separately.

**405-8 (4,4) Descriptive Linguistics.** (a) Phonetics and phonemics, an analysis of language structure from phone to phoneme; (b) morphology and syntax, an analysis of language structure from morph to sentence, with emphasis on immediate constituent analysis. May be taken separately. Prerequisite: consent of instructor.

**412-16 (4,4,4,4) English Nondramatic Literature.** (a) 16th century, (b) 17th century, (c) 18th century, (d) 1744-1798. May be taken separately.

**420-8 (4,4) American Poetry.** (a) Trends in American poetry to 1900 with a critical analysis of the achievement of the more important poets. (b) the more important poets since 1900. May be taken separately. Prerequisite: 309a or 309b.

**421-16 (4,4,4,4) English Poetry.** (a) Early Romantics: major emphasis on general background and on Blake, Coleridge, and Wordsworth; (b) later Romantics: emphasis on Byron, Shelley, and Keats, the minor figures; (c) Victorian poets: Tennyson, Browning, Arnold, and other poets of England, 1830-1900; (d) modern British poets. May be taken separately.

**431-12 (4,4,4) Major American Writers.** Significant writers of fiction and non-fictional prose from the Puritans to the 20th century. (a) 1620-1800, (b) 1800-1865 (c) 1865-1915. May be taken separately.

**438-4 Intellectual Backgrounds of American Literature.** The relationship of basic ideas in America to American literature. Prerequisite: 309a or 309b.

**441-4 The 18th Century Essay.** The informal essay and the literary periodicals - *The Spectator*, *Tatler*, *Guardian*, *Rambler*, *Idler*, and Goldsmith's *Citizen of the World* ("Chinese Letters").

**442-4 Romantic Prose.**

**443-4 Victorian Prose.** The chief writers of nonfictional prose from the late romantics to 1900. Prerequisite: 302c.

**447-4 American Humor and Satire.** A consideration of the writers and forms of 19th and 20th century humor.

**454-12 (4,4,4) English Fiction.** (a) 18th century: Defoe through Jane Austen, (b) Victorian novel: 1830-1900, (c) 20th century. May be taken separately.

**456-4 Modern Continental Fiction.** Selected major works of European authors such as Mann, Silone, Camus, Kafka, Malraux, Hesse.

**458-8 (4,4) American Fiction.** (a) The novel in America from its beginnings to the early 20th century. (b) trends and techniques in the American novel and short story since 1914. May be taken separately.

**460-16 (4,4,4,4) English Drama.** (a) Elizabethan drama: from the beginning of the drama in late Middle Ages through its flowering in such Elizabethan playwrights as Greene, Peele, Kyd, Marlowe, Heywood, Dekker, but excluding Shakespeare; (b) Jacobean drama: the Jacobean and Caroline playwrights: Jonson, Webster, Marston, Middleton, Beaumont and Fletcher, Massinger, Ford, Shirley; (c) Restoration and 18th century drama: after 1660, representative types of plays from Dryden to Sheridan; (d) modern British drama. May be taken separately.

**464-4 Modern Continental Drama.** The continental drama of Europe since 1870; representative plays of Scandinavia, Russia, Germany, France, Italy, Spain, and Portugal.

**468-4 American Drama.** The rise of the theater in America, with readings of plays, chiefly modern. Prerequisite: 309a or 309b.

**471-8 (4,4) Shakespeare.** (a) The plays before 1600, (b) the plays of 1600 and later. Readings on the life of Shakespeare, the theater, and the acting company. May be taken separately.

**473-4 Milton.**

**485-4 Problems in the Teaching of English.** Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.

**486-2 to 8 Workshop in High School English.** Intensive study in lectures, laboratory, conferences, to arrive at agreement on the teaching of English



in high school. Curriculum, materials, methods, aims. Directed by competent authorities in the field.

**487-2 to 8 Workshop in Junior High School English.** Intensive workshop study in lectures, laboratory, conferences on the teaching of English in junior high school. Curriculum, materials, methods, aims. Directed by competent authorities in the field.

**488-9 (3,3,3) Methods of Teaching English as a Foreign Language.** (a) Classroom techniques, (b) laboratory methods, (c) preparation of materials. Restricted to English as a foreign language and must be taken in a,b,c sequence.

**492-4 Professional Writing II.** Must be taken in a,b sequence. Prerequisite: 392 or consent of instructor.

**495-8 (4,4) Literary Criticism.** (a) History of criticism: ideas and techniques from Aristotle to the end of the 19th century, (b) modern criticism: recent critics and critical attitudes, and practice in writing criticism.

**499-2 to 6 Readings in English.** For English students only. Departmental approval required. No more than 4 hours may be taken in any one quarter.

**500-2 Materials and Methods of Research in English.**

**501-4 Old English Grammar.**

**502-4 Beowulf.**

**504-4 Advanced English Syntax.**

**505-4 Contrastive Linguistic Structures.**

**508-4 or 8 Studies in Chaucer.**

**509-4 or 8 Studies in Middle English Literature.**

**511-4 or 8 Studies in the Renaissance.**

**513-4 or 8 Studies in 17th Century Literature.**

**514-4 or 8 Studies in Restoration and 18th Century Literature.**

**519-4 or 8 Studies in Contemporary British Literature.**

**520-4 or 8 Studies in Romantic Writers.**

**521-4 or 8 Studies in Victorian Poetry.**

**524-4 or 8 Studies in the Metaphysical Poets.**

**531-4 or 8 Studies in American Colonial Period.**

**532-4 or 8 Studies in American Transcendentalism.**

**534-4 or 8 Studies in Early 19th Century American Writers.**

**536-4 or 8 Studies in Later 19th Century American Writers.**

**537-4 or 8 Studies in 20th Century American Writers.**

**538-4 or 8 Problems in American Literature.**

**540-4 Studies in Linguistics.** (Historical and Dialectal.)

**543-4 or 8 Studies in Victorian Nonfiction Prose.**

**555-4 or 8 Studies in the Victorian Novel.**

**560-4 or 8 Studies in Renaissance Drama.**

**566-4 or 8 Studies in Shakespeare.**

**569-4 Seminar in Special Problems of English as a Foreign Language.**

**579-16 (4 or 8, 4 or 8) Studies in Modern Literature.**

**580-4 Traditional Themes.**

**581-12 (4,4,4) Problems in High School English.**

**585-2 to 8 Teaching College Composition.**

**597-2 to 4 Readings in Linguistics.**

**598-1 to 9 Independent Review of English and American Literature.**

**599-2 to 9 Thesis.**

## Finance

**320-4 Corporation Finance.** A study of the principal duties of corporate financial officers and the problems of administrative financial management of business. Topics include planning, budgeting and control, external sources of capital. Prerequisites: Accounting 230, 231; Economics 200, 201.

**420-4 Problems in Corporation Finance.** Application of principles of finance to specific cases. Development of analytical ability and fuller comprehension of the nature of financial problems as encountered in business and industry by combining specific cases and collateral readings. Prerequisite: 320.

**423-4 Commercial Banking Operations.** The administration and operation of a commercial bank, including organization structure and asset management. Major problems are analyzed through the study of cases. Prerequisite: 420.



**424-4 Financial Institutions.** A study of the evolution, functions, and practices of the many types of financial intermediaries especially which have come into prominence since World War II and particular attention is given to commerce and government. Prerequisite: 420.

**425-4 Investments.**

**430-4 Business Finance.**

**473-4 Legal Environment of Business.**

### Foreign Languages

The student who has completed one year of foreign language in high school usually begins with the first quarter of the first year course which is in General Studies. The student who has completed two years of high school foreign language usually begins with the intermediate course.

Students taking work in any first year college foreign language series should note that the first two terms are not counted as electives toward graduation unless the third term is also completed.

### General Foreign Language

**399-3 to 9 Readings.** Readings in selected works of representative writers. Offered in French, Spanish, and German. May be taken for one, two, or three quarters. Primarily for students with no foreign language concentration, but may be taken for credit in foreign language concentration with consent. Prerequisite: 201.

**435-4 to 8 Workshop in Elementary School Foreign Language Instruction.** Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages at the elementary school level. To count as education or foreign languages. Prerequisite: basic language credit.

**486-8 (4,4) Materials and Methods for Teaching Foreign Languages.** Application of language learning principles to classroom procedures at different levels. Theory and practice of the audio-lingual approach, the language lab, applied linguistics. Required for all majors intending to teach foreign languages. Prerequisite: one quarter of any 300-level course, or consent.

### French

**123-3 (1,1,1) French Conversation.** Conversation and oral drill taken with GSD 123 by students who wish additional oral training; elected only by students enrolled in GSD 123. May be taken separately.

**200-4 French Review.** Review and practice of basic structures to develop oral fluency. Open only to students with two or three years of high school French who need more training preliminary to entering the intermediate (201) college sequence.

**201-9 (3,3,3) Intermediate French.** Composition, oral practice, rapid reading of modern authors with special attention to the role of French culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 123 or two years of high school French, or equivalent.

**220-6 (2,2,2) Intermediate French Conversation.** Development of oral skill on the intermediate level. Offered for 3 quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

**301-12 (4,4,4) French Literature from the 18th Century to the Contemporary Period.** (a) Montesquieu, Voltaire, Diderot, Rousseau, and others, with reference to the social, political, and philosophic environment of the 18th century. (b) 19th century romanticism, realism, and naturalism. (c) Representative works of the 20th century with special emphasis on the novel and drama. May be taken separately. Prerequisite: 201 and one quarter of 220, or consent.

**311-9 (3,3,3) French Culture and Civilization.** Analysis of significant aspects of French culture designed to improve intercultural understanding and to develop language skills. Oral discussions, readings, written reports, and laboratory practice. Prerequisite: 201 and one quarter of 220, or consent. May be taken separately.

**338-12 (4,4,4) French Literature from the Middle Ages Through the 17th Century.** (a) French literature from *La Chanson De Roland* to Francois Villon with special reference to the social, political, and cultural development of the Middle Ages. (b) Representative works of the Renaissance: Rabelais, Montaigne, Marot, Ronsard, and others. (c) Corneille, Racine, Moliere, Pascal and other writers of the 17th century with reference to the political and social environment of the period. May be taken separately. Prerequisite: 201 and one quarter of 220, or consent.

**351-6 (3,3) Advanced French Conversation and Composition** (a) Oral work of a practical nature for advanced students. Prerequisite: 201 and one quarter of 220, or consent. (b) Rapid grammar review, daily writing practice, controlled composition. Must be taken in a,b sequence.

**451-6 (2,2,2) Seminar.** Integration of the specialized major courses and the development of a comprehensive view of the major field in terms of its relationship to the growth of Western Civilization. Required of all seniors with French concentration.

**461-4 French Stylistics.** Study of writing style in French and its application to the development of skill in written expression. For those who wish to do advanced work in the principles of French grammar and composition. Prerequisite: 9 hours of 300-level courses, or consent.

**500-2 Seminar in Contemporary French Literature.**

**544-6 French Language and Culture.**

**545-3 Applied Linguistics and Remedial Phonetics.**

**546-3 Professional Preparation.**

### *German*

**126-3 (1,1,1) German Conversation.** Conversation and oral drill taken with GSD 126 by students who wish additional oral training: elected only by students enrolled in GSD 126. May be taken separately.

**201-9 (3,3,3) Intermediate German.** Composition, oral practice, rapid reading of modern authors with special attention to the role of German culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 126 or two years of high school German, or equivalent.

**220-6 (2,2,2) Intermediate German Conversation.** Development of oral skill on the intermediate level. Offered for three quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

**251-4 Scientific German.** Study of vocabulary and sentence construction as commonly found in German scientific writings. Prerequisite: one year of college German, or equivalent.

**311-9 (3,3,3) German Culture and Civilization.** Analysis of significant aspects of German culture designed to improve intercultural understanding and to develop language skills. Oral discussions, readings, written reports, and laboratory practice. May be taken separately. Prerequisites: 201 and one quarter of 220.

**313-12 (4,4,4) German Literature Before Romanticism.** (a) The Old High German and Middle High German periods. (b) From the Ackermann in Bohmen to Johann Christian Gunther. (c) German literature from 1700 to the death of Schiller. May be taken separately. Prerequisites: 201 and 220-2.

**316-12 (4,4,4) German Literature from Romanticism to Modern Times.** (a) Introduction to the background, personalities and works of the period from 1798 to Heine. (b) The leading 19th century realists from Droste-Hulshoff to Fontane including the novel and drama of the period. (c) German literary masterpieces from naturalism to the present. May be taken separately. Prerequisites: 201 and 220-2.

**351-6 (3,3) Advanced German Conversation and Composition.** (a) Oral work of a practical nature for advanced students. Prerequisites: 201 and one quarter of 220, or consent. (b) Rapid grammar review, daily writing practice, controlled composition. Must be taken in a,b sequence.

**401-4 Faust.** Analysis of both parts of Goethe's masterpiece, its background, meaning, and impact on world literature together with a general survey of the life and times of the author. Prerequisites: 201 and one quarter of 220.

**451-6 (2,2,2) Seminar.** Integration of the specialized major courses and the development of a comprehensive view of the major field in terms of its relationship to the growth of Western Civilization.



*Italian*

**144-3 (1,1,1) Italian Conversation.** Taken with GSD 144 by students who wish additional oral training; elected only by students enrolled in GSD 144. May be taken separately.

**201-9 (3,3,3) Intermediate Italian.** Development of listening, speaking, reading and writing skills on the intermediate level, with special attention to the role of Italian culture in world civilization. Prerequisite: GSD 144, or two years of high school Italian, or equivalent.

**220-6 (2,2,2) Intermediate Italian Conversation.** Development of oral skill on an intermediate level. Prerequisite: Italian 201c or concurrent registration in any quarter of 201.

*Russian*

**136-3 (1,1,1) Russian Conversation.** Conversation and oral drill taken with GSD 136 by students who wish additional oral training; elected only by students enrolled in GSD 136. May be taken separately.

**201-9 (3,3,3) Intermediate Russian.** Composition, oral practice, rapid reading of modern authors with special attention to the role of Russian culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 136 or two years of high school Russian, or equivalent.

**220-6 (2,2,2) Intermediate Russian Conversation.** Development of oral skill on the intermediate level. Offered for three quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

*Spanish*

**140-3 (1,1,1) Spanish Conversation.** Conversation and oral drill taken with GSD 140 by students who wish additional oral training; elected only by students enrolled in GSD 140. May be taken separately.

**201-9 (3,3,3) Intermediate Spanish.** Composition, oral practice, rapid reading of modern authors with special attention to the role of Spanish culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 140 or two years of high school Spanish, or equivalent.

**220-6 (2,2,2,) Intermediate Spanish Conversation.** Development of oral skill on the intermediate level. Offered for three quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

**301-12 (4,4,4) Spanish Literature from the Medieval Period Through Romanticism.** (a) Spanish literature from the 12th to the 15th century; the epic, *El-Cantar Del Cid*, ballads, lyric poetry, chronicles and other prose works. (b) Representative works of the 16th and 17th centuries: Cervantes, Tirso de Molina, Lope de Vega, and others. (c) Romanticism in Spanish literature during the 18th and 19th centuries: Espronceda, Duque de Rivas, Jose Zorilla, and others. May be taken separately. Prerequisites: 201 and one quarter of 220.

**304-8 (4,4) Modern Spanish Literature.** (a) Spanish literature of the 19th century as influenced by trends of European thought of the period: Galdos, Brazan, Benavente, and others. (b) Spanish literature of the 20th century with emphasis on the novel, essay, and poetry: Unamuno, Ortego y Gasset, Garcia Lorca, and others. May be taken separately. Prerequisite: 201 and one quarter of 220.

**306-4 Latin American Literature.** Representative writers in Latin-American Literature from the Colonial to the Contemporary period with emphasis on the novel, essay, and poetry. Prerequisites: 201 and one quarter of 220.

**311-9 (3,3,3) Spanish Culture and Civilization.** Analysis of significant aspects of Spanish culture designed to improve intercultural understanding and to develop language skills. Oral discussions, readings, written reports, and laboratory practice. May be taken separately. Prerequisites: 201 and one quarter of 220.

**351-6 (3,3) Advanced Spanish Conversation and Composition.** (a) Oral work of a practical nature for advanced students. Prerequisite: 201 and one quarter of 220, or consent. (b) Rapid grammar review, daily writing practice, controlled composition. Must be taken in a,b, sequence.



**451-6 (2,2,2) Spanish Seminar.** Integration of the specialized major courses and development of a comprehensive view of the major field in terms of its relationships to the growth of Western Civilization.

**461-4 Spanish Stylistics.** Study of writing style in Spanish and its application to the development of skill in written expression. For those who wish to do advanced work in the principles of Spanish grammar and composition. Prerequisite: 9 hours of 300-level courses.

### General Business Administration

**140-4 Introduction to Business.** An overview of the basic nature of business in an essentially market-disciplined economic system. Emphasis on the interdisciplinary nature of business and the broad administrative principles governing organized human endeavor. Introduction to business and economic terminology and to the case method of developing analytical ability.

**340-4 Organization and Decision-Making.** Development of understanding of organizational behavior and decision theory and of analytical skills through case analysis and discussion. Examination of processes of group formation and development, conformity and direction, influence and decision-making, problem solving, role specialization and differentiation, status and social power distribution, satisfaction, and goal internalization and commitment. Prerequisites: 140 and GSB 201a,b,c.

**341-4 Organizational Problems.** Application of the concepts, understanding, and techniques to major categories of recurring organizational problems faced by complex business units and described in case situations. Features such as position specifications, authority structures, territorial imperatives, performance measurements, and procedures involving compensation, communication, and employee selection and promotion. Designing organizational patterns to meet specific situational needs. Prerequisite: 340.

**342-4 Contracts-Agency Law.** Study and discussion of the terminology, definitions, and principles of contract law applicable to the contractive problems in the operation of a business, including the relevant provisions of the uniform commercial code. The application of the principles of agency law by the entrepreneur in operating his firm, and his legal liability to his agency and third parties with whom he deals.

**440-4 The Legal Environment of Business.** Varied facets of the external and internal legal environments within which business firms operate. Use of cases and readings which describe and analyze the legal framework supporting, facilitating, and guiding everyday business decisions. Common law, statutory law, and administrative law as they affect the business environment. Prerequisite: 140.

**441-3 Business Policy.** Development of a top-management view leading to the formulation of general policies to be followed by the organization. Determination of objectives, the development of plans for their achievement, organizing administrative personnel to carry them out, implementation of programs, measurement of results, and the reappraisal of objectives, plans and action-patterns in the light of evolving situations. Prerequisites: 341 and 440.

### Geography

**302-4 Introduction to Physical Geography.** A study of the earth's physical surface, world distribution patterns of the physical elements, their relationship to each other, and their importance to man. Field trip and laboratory work.

**304-4 Introduction to Economic Geography.** Study of the spatial distribution and interaction of economic activities. Introduction to locational theory. Prerequisite: GSB 203-4.

**306-4 Introduction to Cultural Geography.** An overview of the geographic viewpoint in the study of the human occupancy of the earth. Aspects of population, settlement, and political geography, and a generalized survey of major world cultural areas. Prerequisite: GSB 101a.

**308-3 Introduction to Geographic Methods.** Designed to introduce the geographic methods of integrating physical, economic, and cultural elements in the study of areas. Cartographic and quantitative techniques utilized.

**310-6 (3,3) Introduction to Cartographic Methods.** Properties of maps and

air photos, their uses and sources; map symbols, map projections, and map construction. Introduction to the use of quantitative techniques as applied in geographic study. Laboratory. Prerequisite: GSB 101a.

**GSA 312-3 Conservation of Natural Resources.**

**324-4 Restoration and Conservation of Natural Resources.** Survey of major resources of United States with stress on problems of conservation and restoration. Emphasis on water, mineral, forest, grass, soil, wildlife, scenic, and recreational resources. Field trips. Prerequisite: GSB 101a or consent of instructor.

**GSA 330-3 Weather.**

**GSA 331-3 Climate.**

**343-4 Teaching of Geography.** Presentation and evaluation of methods of teaching geography. Emphasis upon geographic literature, illustrative materials, and teaching devices suitable to particular age levels.

**GSB 351a-3 Geographic and Cultural Background of Developing Africa.**

**GSB 354-3 Industrial Economic Geography.**

**402-10 (4,3,3) Advanced Physical Geography I.** Deals with one or more of the following: land forms, climate, soil, and water; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis toward familiarizing the student with techniques of analysis and developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 110a,b.

**403-7 (4,3) Advanced Physical Geography II.** Content drawn from same broad range of topics as 402. To be alternated with 402 to enable student to specialize further in physical geography. Prerequisite: 302 or consent.

**404-10 (4,3,3) Advanced Economic Geography I.** Deals with one or more of the following: transportation, manufacturing, agriculture, resources, trade and urban geography; depending on, and varying with, interests of instructors. Thus, a student may register more than one time. Emphasis toward familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or consent.

**405-7 (4,3) Advanced Economic Geography II.** Content drawn from same broad range of topics as 404. To be alternated with 404 to enable student to specialize further in economic geography. Prerequisite: 302 or consent.

**406-7 (4,3) Advanced Cultural Geography I.** Deals with one or more of the following: population, settlement, ethnic characteristics, political factors; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis toward familiarizing the student with techniques of analysis, and developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 306.

**407-7 (4,3) Advanced Cultural Geography II.** Content drawn from same broad range of topics as 406. To be alternated with 406 to enable student to specialize further in cultural geography. Prerequisite: 302 or consent.

**410-6 (3,3) Advanced Geographic Techniques.** Geographic applications of cartographic and quantitative research techniques. Prerequisite: 310 or consent of instructor.

**416-8 (4,4) Advanced Cartography.** Instruction and practice in the techniques of map-making and problems in map reproduction. Laboratory. Prerequisite: 310.

**417-3 Air Photo Interpretation.** Techniques in the use of air photos as source material for research in the physical and social sciences. Laboratory. Prerequisite: 310a or consent of instructor.

**424-4 Regional Problems in Conservation.** The distribution, use, and inter-relationship of the resources of the U.S. and the conservation techniques applied to them.

**426-12 (4,4,4) Photogrammetry.** (Same as Engineering Technology 426).

**450-3 to 15 Travel Study Course.** Enrichment through travel, supervised study, and readings on areas visited.

**461-7 (4,3) Advanced Regional Geography: Anglo-America.** Deals geographically with present-day U.S. and Canada. (a) A general survey of the area, open to students without a concentration. (b) Investigates specific topics in depth, for students with a concentration in geography.

**462-7 (4,3) Advanced Regional Geography: Europe.** (See 461.)



- 463-7 (4,3) **Advanced Regional Geography: Mediterranean Lands and South-western Asia.** (See 461.)
- 464-7 (4,3) **Advanced Regional Geography: Soviet World.** (See 461.)
- 465-7 (4,3) **Advanced Regional Geography: Africa.** (See 461.)
- 466-7 (4,3) **Advanced Regional Geography: Asia.** (See 461.)
- 467-7 (4,3) **Advanced Regional Geography: Latin America.** (See 461.)
- 468-7 (4,3) **Advanced Regional Geography: Oceania.** (See 461.)
- 470-16 to 20 (4,4,4,4 to 8) **Urban Planning.** (Same as Government 470.) (a) Planning concepts and methods, (b) planning administration and the planning, function in public process, (c) field problems, (e) planning and public administration internship. Parts c and e may be taken concurrently.
- 471-8 (4,4) **Regional Planning.** Area and regional development, theory, and practices.
- 475-4 to 8 **Methods of Field Geography.** Application of geographic field techniques.
- 490-1 to 2 (8 total) **Tutorial in Geography.** Individual and small group conferences with staff members to examine geographic concepts.
- 500-4 **Geographic Techniques I.**
- 501-4 **Geographic Techniques II.**
- 511-4 **Philosophy of Geography.**
- 516-4 to 6 **Field Course.**
- 520-2 to 8 **Seminar in Physical Geography.**
- 521-2 to 8 **Seminar in Economic Geography.**
- 522-2 to 12 **Seminar in Regional Geography.**
- 523-4 **Seminar in Cartography.**
- 524-2 to 8 **Seminar in Cultural Geography.**
- 527-2 to 8 **Seminar in Urban and Regional Planning.**
- 530-2 to 10 **Independent Studies in Geography.**
- 599-2 to 9 **Thesis.**

## Government

- 200-4 **Introduction to Political Science.** A general introduction to the study of politics with emphasis on contemporary theories for ordering political systems, the institutions of government and their processes, and the social roots of political behavior.
- 315-3 **Administration of Justice.** The organization and work of the American judicial system. Recommended for prelaw students.
- GSB 318-6 (3,3) **State and Local Government.**
- 321-1 to 6 **Readings in Government.** Prerequisite: consent of instructor.
- 340-3 **The Legislative Process.** A study of the principles, organization, and work of American legislative bodies. Prerequisite: GSB 203a.
- GSB 345-3 **Introduction to American Foreign Policy.**
- GSB 359-6 (3,3) **Society and State: Social and Political Theories.**
- 360-4 **Introduction to Public Administration.** Nature of public administration in the United States, basic administrative practices, the peculiar governmental systems; major issues in public administration. Prerequisite: GSB 203a.
- 361-3 **Selected Problems in Public Administration and Policy Formulation.** Intensive examination of problem areas illustrating administrative and management practices in public service and demonstrating linkages between politics and administration in our political system. Prerequisite: 360.
- 370-4 **International Relations.** A study of world politics. The causes of international conflict and the conditions of peace. Prerequisite: GSB 345.
- 371-4 **Problems of American Foreign Policy.** An analysis of selected problems in the field of American foreign policy. Prerequisite: GSB 203a or GSB 345.
- 379-3 **The Development of Political Parties.** A study of the historical development of American political parties. Prerequisite: GSB 203a.
- 380-4 **Political Parties.** An analysis of contemporary American political parties. Prerequisite: GSB 203a.
- GSB 385-3 **Contemporary Political "Isms."**
- 390-8 (4,4) **Comparative European Government.** (a) The Constitutional and Liberal Systems: A comparative study of Great Britain, France (liberal and constitutional phases), and the nontotalitarian phases of German government. Other states may be included at the option of the instructor. (b) The



**Authoritarian and Totalitarian Systems:** An examination of the authoritarian systems of Fascist Italy, Nazi Germany, and the U.S.S.R. A comprehensive comparison of these two types of government. Prerequisite: 200.

**406-4 The American Chief Executive: President and Governor.** A study of the origin and background of the presidency and the governorship, qualifications, nomination and election, succession and removal, the organization of the executive branch, and the powers and functions of the president and governor. Prerequisite: GSB 203a.

**415-9 (3,3,3) Political Behavior.** An analysis of the nature of public opinion and methods of influencing political behavior. Major attention given to studying the basic psychological attitudes and behavior. Prerequisite: GSB 203a.

**420-3 Pressure Groups and Politics.** An analysis of interest groups and their techniques of political propaganda. Prerequisite: GSB 203a.

**435-4 Government and Business.** An historical study, with contemporary emphasis upon relations between government and economic institutions. Prerequisite: GSB 203A.

**440-4 Public Personnel Administration.** An analysis of some of the central problems encountered by the government executive in recruiting, maintaining, and developing personnel, such as political neutrality, leadership and motivation, career development, security regulations, and the role of personnel in policy planning and execution. Prerequisite: GSB 203a.

**450-12 (4,4,4) Latin American Governments.** A survey of the governments in (a) countries in the Caribbean area; and (b) countries in South America; (c) deals with the governmental relations between the United States and the Latin American nations. Prerequisites: 200 and GSB 203a.

**451-3 International Politics of Europe.** Nation-wide system in Europe; foreign politics of major states; nationalism as a source of conflict, Soviet expansionism; progress toward European security and unification.

**453-12 (4,4,4) The Government and Politics of the Soviet Union.** An intensive study and research exercise in communist government and politics. Prerequisites: 200 and 390b or consent of instructor.

**456-4 Great Britain and the British Empire.** A survey of the governmental institutions and practices within the British Commonwealth, with particular attention to the political systems of Australia, Canada, and South Africa. (The governments of India and Pakistan are treated in 458.) Prerequisite: 390a or consent of instructor.

**457-4 Government and Politics in the Near and Middle East.** Iran, Iraq, Syria, Lebanon, Egypt, Jordan, Saudi Arabia, etc. Prerequisite: 370 or consent of instructor.

**458-8 (4,4) Government and Politics of Asia.** (a) Burma, Thailand, Malaya, Indochina, Indonesia, Philippines. (b) China, Japan, Korea, Formosa. Prerequisite: 390b or consent of instructor.

**461-4 Organizational Theory and Public Administration.** Analysis of various theoretical approaches to public administration with emphasis on recent American literature in this field. Prerequisite: 360 or concurrent registration with 360.

**465-3 Local Government and Public Administration.** Problems and issues at local governmental level. Emphasizes administrative approaches, special problems in inter-governmental relationships, and the developing tasks related to urban expansion. Prerequisite: 360.

**470 Urban Planning.** (See Geography 470).

**472-4 International Governments.** Development and organization of international governmental and administrative systems, with emphasis on the United Nations. Prerequisite: GSB 303.

**473-3 Metropolitan Studies and Research.** Examination of the reorganization movement related to improvement and restructuring of government in metropolitan areas. Review and evaluation of special problems in research methodology. Prerequisite: 360 or 465 or consent of instructor.

**484-12 (4,4,4) History of Political Theories.** (Same as Philosophy 484.) (a) Outstanding political theories of the ancient and medieval periods, including theories of Aristotle, Plato, Cicero, St. Augustine, and Thomas Aquinas. (b) Important political theories from the Renaissance to the end of the 18th century, including the theories of Machiavelli, Hobbes, Rousseau, Locke, and Burke. (c) The theories of Publius, Bentham, Hegel, Tocqueville, Mills, Marx, and Nietzsche. Prerequisite: 200.

**487-6 (3,3) American Political Ideas.** A historical study of the political

ideas of leading American statesmen and publicists, and their resulting influence upon our governmental system.

**495-12 (4,4,4) Constitutional Law.** (a) A study of the development of American constitutional law chiefly through judicial opinion. Emphasis is placed on the analysis of federalism and the distribution of powers. (b) A study of government power and the rights of property. Special attention is directed to tension between the public welfare and private rights, the extent of government power to regulate property rights, and state versus federal power over commerce and taxation. (c) A study of the nature and extent of civil rights and liberties in the United States. Special attention is given to freedom of speech, press, and association, separation of church and state, equal protection of the laws, and the rights of persons accused of crime. Prerequisite: GSB 203a.

**499-4 Scope and Method of Government.**

**505-2 to 9 Seminar in Political Parties.**

**508-2 to 9 Seminar in International Relations.**

**512-2 to 9 Seminar in Public Administration.**

**513-2 to 9 Seminar in Constitutional Law.**

**515-2 to 9 Seminar in Comparative Governments.**

**517-2 to 9 Seminar in Problems in Political Theory.**

**521-1 to 12 Readings.**

**530-4 to 12 Internship in Public Affairs.**

**599-2 to 9 Thesis.**

## Health Education

**205-4 Principles and Foundations of Health Education.** Introduction to philosophy and history of health education as well as functions of the school health department and voluntary agency interaction in the health education program. Prerequisite for all 300-level courses and above.

**300-3 Communicable Disease.** A study of the communicable diseases with emphasis on control and principles of prevention, and application of these principles to the individual school and community.

**302-4 Driver Education and Training.** Preparation of the college student for teaching driver education and training in the secondary school. Prerequisite: a valid driver's license.

**313s-4 Introduction to Safety Education.** Preparation for safety education in the public schools. Concerned with safety as a social problem, development of safety skills, accident causes, teacher liability, and research in the field.

**334s-4 First Aid.** Red Cross First Aid Course with lectures, demonstrations, and practical applications. Red Cross Instructor's Certificate given.

**350-4 Methods and Materials in Elementary Health Education.** Designed to show the prospective teacher fundamental processes, techniques, and material aids involved in elementary school health teaching.

**355-4 Introduction to Public Health.** Philosophy, organization, administration, and functions of federal, state, and local, official and voluntary public health agencies. Periodic field trips involved.

**400-4 Health Appraisal of School Children.**

**415s-4 Workshop in Driver Education and Traffic Safety.**

**443s-4 Methods and Materials in Driver Education.**

**460-4 Methods and Materials in Secondary School Health Education.**

**461-4 Workshop in Health Education.**

**470-3 Workshop in Sex Education for Elementary Teachers.**

**471-4 Organization and Administration of School Health.**

**480s-4 Workshop in Safety Education.**

## History

**100-3 Survey of Ancient Civilization.** Ancient Period to 1000 A.D.

**GSB 101a,b-8 (4,4) Survey of Western Civilization.**

**201-8 (4,4) History of the United States.**

**GSB 300-9 (3,3,3) History of the United States.**

**304a-3 History of the Ancient World.** (a) The Near East, (b) Greece, (c) Rome. May be taken individually or in any sequence.



- 306-9 (3,3,3) History of Rome.** (a) The Republic. (b) The Western Empire. (c) The Eastern Empire. Prerequisite: 100 or equivalent.
- 308-3 History of Illinois.** The history of the state from 1818 to the present. Recommended for students with a concentration in history and those who expect to teach in elementary schools.
- 309-4 The Negro in America.** The role of the Negro in America from the 17th century to the present with emphasis on the period since 1865.
- 312-4 Central Europe in the Nineteenth Century.** An analysis of the rise of nationalism with emphasis on Germany and Italy and of the problems of the Austro-Hungarian monarchy. Prerequisites: GSB 101b,c.
- 330-4 The Revolution and the Constitution.** A study of the conflicting forces which produced the American Revolution, led to the creation of the federal union and shaped the early republic.
- 332-8 (4,4) Medieval History.** (a) Early Middle Ages. (b) Later Middle Ages. Prerequisite: sophomore standing.
- 338-6 (3,3) History of Greece.** (a) Hellenic history. (b) 401-133 B.C. Prerequisite: sophomore standing.
- 341-9 (3,3,3) History of Religion in Western Civilization.** A study of religious institutions, ideas, and practices in Western civilization and the relationship to society. (a) Ancient period to 12th century. (b) 12th century to present in Europe. (c) United States. May be taken separately or in any sequence. Prerequisite: GSB 101b,c.
- 352-9 (3,3,3) History of Latin America.** (a) Colonial Latin America, (b) Independent Latin America, (c) Latin America in World Affairs. May be taken separately or in any sequence.
- 365-4 History of Chinese Civilization.** A study of the march of Chinese civilization from prehistoric times to the present, stressing social structure, government institutions, and intellectual movements.
- 367-6 (3,3) History of the Far East.** (a) Introduction to 1800, (b) 1800-1945. May be taken separately or in either sequence.
- GSB 369-3 The Contemporary Far East.**
- 372-8 (4,4) History of Russia.** (a) To 1905. (b) Since 1905. May be taken separately or in any sequence. Prerequisite: GSB 101b,c.
- GSB 380-6 (3,3) East Europe.**
- GSB 382-6 (3,3) History of Great Britain Since 1782.**
- 401-4 History of the South.** (a) The Old South. (b) The New South. An intensive study of the social, economic, political, and cultural developments of the South.
- 405-3 The American Civil War.** Emphasis upon the clash of national and sectional interests; economic, political, and military aspects of the conflict. Prerequisite: GSB 300b, or consent of instructor.
- 410-2 to 5 Special Readings in History.** Supervised reading for students with sufficient background. Registration by special permission only. Offered on demand.
- 412-9 (3,3,3) Intellectual History of the U.S.** (a) 17th, 18th centuries, (b) 19th century, (c) 20th century. Prerequisite: GSB 300-9.
- 415-12 (4,4,4) Early Modern Europe.** (a) Renaissance. (b) Reformation. (c) Age of Absolution and Enlightenment. Prerequisite: GSB 101b,c.
- 417-16 (4,4,4,4) Advanced English History.** (a) The Empire-Commonwealth. (b) Constitutional History. (c) English Culture in the Age of American Colonization. (d) Tudor England.
- 420-4 The French Revolution.** A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.
- 425-6 (3,3) American Colonial History.** Founding of the American colonies and the development of their institutions to 1763.
- 428-4 The Age of Jackson.** Origins, background, and development of that phase of American democracy associated with the Jacksonian era. The political, social, and economic history of the years 1815-1844 considered in detail. Prerequisite: GSB 300a.
- 430-9 (3,3,3) Late Modern Europe.** (a) Age of Revolution, 1815-1880. (b) 1880-1918. (c) Since 1918. Age of Dictatorships.
- 435-12 (3,3,3,3) Advanced American History.** (a) 1865-1900. (b) 1900-1929. (c) 1929 to present. Prerequisite: GSB 300-9.
- 440-6 (3,3) History of American Diplomacy.** (a) To 1913, (b) 1913 to present. A study of the important treaty relations of the United States, and



a general consideration of American foreign policies. Prerequisite: GSB 300a,b or consent of instructor.

**451-3 Historiography.** Development of history as a written subject, including works and philosophy of the various historians in ancient, medieval, and modern periods.

**452-3 Historical Research and Thesis Writing.** (For history concentrations only.) The rules of historical research studied and applied to a definite topic.

**454-3 Biography in American History.** Outstanding leaders and their contributions to the history of the United States. Attention to historical writers who specialize in biography. Prerequisite: a course in U.S. history.

**458-8 (4,4) History of Science.**

**460-9 (3,3,3) Social and Intellectual History of the Middle Ages.** (a) 500-1000. (b) 1000-1250. (c) 1250-1500.

**470-3 Argentina, Brazil, and Chile.** A narrative and comparative study of the independent era of the history of the three leading states of South America.

**471-6 (3,3) History of Mexico.** (a) 19th century. (b) 20th century. Significant political, economic, diplomatic, social, and cultural aspects of Mexican life from independence to modern Mexican life.

**473-3 The Caribbean Area in the Twentieth Century.**

**474-3 United States-Mexican Relations.**

**500-3 to 9 History Seminar.**

**510-2 to 5 Readings in History.**

**511-3 Studies in the Middle Ages.**

**512-3 Studies in Nineteenth Century Europe.**

**513-4 Problems in Ancient History.**

**514-3 Studies in Asian History.**

**515-3 Current United States History and Problems.**

**519-4 The Age of Jefferson.**

**520-4 City-States of the Italian Renaissance.**

**553-3 New Viewpoints in American History.**

**554-4 Problems in 19th Century America.**

**575-9 (3,3,3) Studies in Latin American History.**

**599-1 to 9 Thesis.**

## Humanities

**301-3, 302-3, 303-3 Humanities Honors.** Prerequisite: completion of the second-level General Studies courses and invitation of the Humanities Honors Program Committee. Accepted in lieu of third-level GSC requirement.

## Instructional Materials

**308-4 School Library Technical Processes.** Organization of library materials for effective service. Acquisition, classification, cataloging, preparation, preservation, and circulation. Laboratory assignments.

**400-2 Library Research Methods.** Introduction to the use of library materials in graduate research. Includes a survey of scholarly publishing and the use of reference works in various subjects.

**403-4 School Library Functions and Management.** Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.

**405-4 Library Materials for Children.** Study of the aids, methods, and criteria for the selection and use of books and other instructional materials for children in the elementary schools. Open to juniors with consent of instructor.

**406-4 Library Materials for Adolescents.** A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school. Open to juniors with consent of instructor.

**407-4 Basic Reference Sources.**

**413-4 Cataloging of Non-Book Materials.**

**417-4 Audio-Visual Methods in Education.** Selection and utilization of instructional materials in the learning environment, elementary through adult levels. Audio and visual materials and procedures are emphasized with some attention given to bibliographies and reference books for teachers.

- 420-4 School Library Activities and Practice.** Supervised practice and observation integrated with instruction in typical activities of school librarianship; storytelling, publicity, developing units of library instruction, and work with students. Prerequisites: 308, 403, 405.
- 440-2 Photography for Teachers.** Techniques of picture-taking and the preparation of color slides of community resources for use in classroom instruction and for school public relations.
- 445-4 Preparation of Teacher-Made Audio-Visual Materials.** Laboratory practice in the preparation of bulletin boards, opaque materials, models, slides, recordings, feltboards, and other graphic materials. Prerequisite: 417 or consent of instructor.
- 457-4 Radio and Television in the Classroom.** Educational programs and their value to the teacher in the classroom. Sample tapes of radio programs and kinescopes are used.
- 458-4 The Medium of the Motion Picture.** A study of the full range of expression by motion pictures including the documentary, theatrical, educational, experimental, and industrial films. Representative films are screened.
- 470-4 Programmed Automated Instruction.** The principles and practices of writing both linear and intrinsic types of programmed instruction with emphasis on pictorial and performance branches. Individual experience in planning and producing programs.
- 510-4 Mass Communications in Education.**
- 514-4 Survey of Research and Development in Instructional Materials.**
- 530-4 History of Books and Libraries.**
- 546-4 Integration of Audio-Visual Materials in the Classroom.**
- 547-4 School Film and Filmstrip Production.**
- 548-4 Supervision and Administration of an Audio-Visual Program.**
- 549-4 Visual Learning.**
- 554-4 Administration of an Instructional Materials Center.**
- 560-4 Seminar in Instructional Materials.**

### Journalism

- 101-3, 102-3 Introduction to Journalism, I, II.** Development of the newspaper and other media in America; role of the press in modern society.
- 103-3 News.** Study of the newspaper story with experience in writing and rewriting news; the fundamentals of copyreading.
- 201-3, 202-3, 303-3 News Writing and Editing, I, II, III.** How to cover assignments and write news stories; preparation of copy for publication; writing headlines; laboratory exercises.
- 330-3 Editorial Writing.** The work and responsibility of the editor and editorial writer with emphasis upon editorial writing and thinking. Editorial problems, methods, policies, and style.
- 340-3 The Law of Journalism.** Legal limitations and privileges affecting publishing, fair comment, criticism, contempt of court, right of privacy, copyright, and legal provisions affecting advertising.
- 345-3 History of Journalism.** Development of American journalism with emphasis upon the struggle for freedom of the press, leading editors, outstanding newspapers and periodicals.
- 370-4 Principles of Advertising.** Advertising fundamentals in relation to modern business activities; economic and social aspects, research, media, appeals, production, schedules. Prerequisite: GSB 103b.
- 391-3 Feature Writing.** How to plan and write newspaper features and special articles.

### Management Operating Systems

- 280-4 Introduction to Electronic Data Processing.** (for non-business students.) An introduction to the principles underlying information theory, electronic data processing applications, and management systems. Includes applications in numerous areas to demonstrate systems, concepts, and computer capabilities. Attention given to the growing impact of systems and computers upon business and government and to the characteristics of the computer industry.
- 281-4 Principles of Computer Programming.** A comparative study of stored program concepts, binary coding principles, study of machine language and symbolic coding; definition of problem and preparation of flow charts and



block diagrams. Work involves practice problems requiring the preparation of flow charts, block diagrams, coding, preparation of source programs, and test running on computer equipment. Prerequisite: consent of instructor.

**380—4 Management Operating Systems I.** A study of organizational decision making within the concept of systems with emphasis on information flows, decision centers and the application of data processing techniques. A major portion of the course is student development of an information, decision-making, and control system for a specific small-scale business enterprise. The computer is used. Prerequisite: Accounting 231.

**381—4 Management Operating Systems II.** A study of the complexities involved in the simultaneous integration of several sub-systems. Teams of students design company or corporate-wide management operating systems. The computer is used. Prerequisites: Accounting 341, Marketing 452, Production 460, and senior standing.

## Marketing

**370—4 Consumer Behavior.** An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchases of goods and services. The purchaser's psychological, economic, and sociocultural actions and reactions are stressed as they relate to a better understanding of consumption. Prerequisites: GSB 103a,b, GSB 201c, Economics 201, and Quantitative Methods 211.

**371—4 Principles of Marketing Management.** An introductory survey of the problems encountered by the marketing executive and the analytical and evaluative systems available which can be used to improve his operating efficiency. Emphasis is placed on the use of marketing management factors in the areas of markets, products, distribution, price and promotion. Prerequisite: 370.

**452—4 Physical Distribution Management.** A systematic, integrated treatment of problems of managing the flow of raw materials, parts, semi-manufactured and finished goods from their sources to the ultimate consumer. Stress on the application and logic of quantitative decision tools to the problems of spatial relationships of plant capacity and storage facilities and their connecting transportation linkages. Prerequisites: 470 and Quantitative Methods 310.

**470—4 Marketing Research.** A development of the concepts necessary for understanding and performing research in the area of marketing. The basic procedures and theories underlying research are investigated, evaluated and applied to marketing decision making. Market, advertising, and sales research. Prerequisites: 371 and Quantitative Methods 211.

**471—4 Advertising Policy and Management.** Advertising strategy, planning, and research and their relationship to other marketing tools. Emphasis on problems faced by marketing and business executives in administering the advertising effort. Prerequisite: 470.

**472—4 Sales Policy and Management.** An examination of the organization of the sales effort and of functions of salesmen and sales managers (including all echelons from the general marketing managers to the territory salesmen). Problem areas such as sales department organization, recruitment of salesmen and their motivation and supervision, design and administration of sales territories, appraisal of salesmen's performance. Prerequisite: 470.

**473—4 Advanced Marketing Management.** Development of the student's ability to identify marketing problems, investigate alternative solutions, and render decisions. Should be the final marketing course taken by the undergraduate marketing major. Prerequisite: senior standing.

## Mathematics

**150—8 (4,4) Elementary Calculus and Analytic Geometry.** Elementary differential and integral calculus with analytic geometry and applications. Includes the definite integral and differentiation of transcendental functions. Must be taken in a,b sequence. Prerequisite: GSD 114c.

**225—4 Programming for Digital Computers.** An intensive course. Topics include computer organization and characteristics, machine language coding, flow charts, subroutines, symbolic coding, and compiler systems. Equipment of the



University's Data Processing and Computing Center is used for applications. Prerequisite: GSD 114a.

**252-8 (4,4) Calculus and Analytic Geometry.** Continuation of 150. Includes differential and integrated calculus, applications, introduction to solid analytic geometry, infinite series. Must be taken in a,b sequence. Prerequisite: 150b.

**300-4 The Real Number System.** An axiomatic study of the real number system by use of modern logic and elementary set theory. Prerequisite: 150b.

**305-6 (3,3) Applied Mathematics for the Physical Sciences.** (a) Ordinary differential equations, linear algebra, and applications. (b) Additional topics in applied mathematics such as finite difference methods; Laplace transforms, and Fourier series. Must be taken in a,b sequence. Prerequisites: 252b and Physics 211c.

**310-4 The Teaching of Elementary Mathematics.** (For elementary education concentrations only.) A professional treatment of the subject matter of arithmetic methods and a study of trends and current literature on the teaching of arithmetic. Prerequisite: GSD 112-8.

**311-4 The Teaching of Secondary Mathematics.** A study of the nature and objectives of the secondary mathematics curriculum. Stress on the means of introducing new ideas into the high school program. For students preparing to be certified teachers of secondary mathematics. Does not count toward a mathematics concentration for Bachelor of Arts degree students. Prerequisites: 320a and Secondary Education 315.

**320-6 (3,3) Fundamental Concepts of Algebra.** Introduces abstract algebraic structures, including groups, rings, and fields. Stress on classical theory of numbers and polynomials. Must be taken in a,b sequence. Prerequisite: 150b.

**324-3 Vector Analysis.** Prerequisites: 252b and Physics 211a.

**335-6 (3,3) Concepts of Geometry.** An elementary introduction to various geometric systems to acquaint the student with the interrelationship between geometries of current interest. Topics include axiom systems, absolute plane geometry, Euclidean geometry, and non-Euclidean geometry. Must be taken in a,b sequence. Prerequisite: 252a or consent of instructor.

**395-2 to 12 Readings in Mathematics.** Supervised reading in selected subjects. Prerequisites: 12 hours of 300- or 400-level mathematics, 4.0 average in mathematics and consent of chairman.

**400-3 History of Mathematics.** An introduction to the development of major mathematical concepts. Particular attention given to the evolution of the abstract concept of space, to the evolution of abstract algebra, to the evolution of the function concept, and to the changes in the concept of rigor in the development of mathematics from 600 B.C. to the present time. Prerequisite: 320a or consent of instructor.

**410-16 (4,4,4,4) Statistical Analysis.** For students in fields using statistical methods but not required to take calculus. Includes (a) elements of probability, estimation, and testing hypotheses; (b) the general linear model (multiple linear regression, analysis of variance, analysis of covariance) and non-parametric statistics; (c) design of experiments; (d) sample survey techniques. May not be used to satisfy requirements for a mathematics concentration. Three lectures and two laboratory hours per week. Must be taken in either a,b,c,d or a,b,d,c sequence. Prerequisite: GSD 114a.

**413-4 Solid Analytic Geometry.** An algebraic study of equations of the first and second degree in three variables, with applications to geometry. Systems of planes; equations of lines in symmetric and parametric form. Spheres, cylinders, surfaces of revolution. Matrix algebra; real orthogonal and symmetric matrices. Coordinate transformations; orthogonal similarity. Quadratic forms and quadric surfaces; invariants; principal axes and planes. Prerequisite: 252b or consent of chairman.

**415-4 Non-Euclidean Geometry.** An introduction to hyperbolic and elliptic plane geometry and trigonometry. Emphasis given to the nature and significance of geometry and the historical background of non-Euclidean geometry. Prerequisite: 252a.

**421-6 (3,3) Linear Algebra.** The theory of determinants and systems of linear equations; vector spaces, linear independence, bases, dimension; linear transformations, change of base, similarity; quadratic and Hermitian forms, orthogonal and unitary transformations; triangular and diagonal form; eigenvalues and eigenvectors; normal matrices; nilpotent and idempotent matrices, the spectral theorem. Must be taken in a,b sequence. Prerequisite: 252b.

**425-3 Theory of Numbers.** Topics in elementary number theory, including

properties of integers and prime numbers, divisibility. Diophantine equations, and congruence of numbers. Prerequisite: 320a.

**426-6 (3,3) Mathematical Logic.** (Same as Philosophy 426.) (a) Matrix and set theoretic development of the propositional calculus, many-valued logics, modal logics. Completion and consistency proofs for the propositional calculus. (b) A formal development of the predicate calculus and related problems. Must be taken in a,b sequence. Prerequisite: 320a or consent of instructor.

**430-4 Projective Geometry.** Introduction to the fundamental concepts of projective geometry. Topics usually include the study of conics, polar systems of conics, homogeneous coordinates, cross-ratio, harmonic sets, duality, projectivities, and involutions. Prerequisite: 320a or consent of instructor.

**433-3 Theory of Point Sets.** General properties of sets; topology of plane sets: closed sets and open sets in metric spaces, homeomorphisms and continuous mappings, connectedness. Prerequisite: 252b and 6 hours in courses numbered 300 or higher, or consent of instructor.

**440-2 to 4 Modern Algebra for Teachers.** An introduction to algebra as a logical system, including groups, rings, and fields. Prerequisite: consent of instructor.

**442-2 to 4 Survey of Geometry.** A survey of geometry, including projective geometry, topology, etc. Prerequisite: consent of instructor.

**445-2 to 4 Fundamental Concepts of Calculus.** A careful study of the basic concepts of calculus offered as part of the special graduate program for secondary school teachers. Prerequisite: consent of instructor.

**446-2 to 10 Structure of Mathematics.** Designed to assist experienced teachers in extending their understanding of mathematics. (a) Elementary School Mathematics, (b) Junior High School Mathematics. Does not count credit toward a mathematics concentration. Prerequisites: experience in teaching and consent of instructor.

**447-4 The Structure of Secondary School Mathematics.** Designed to assist experienced secondary school teachers in extending their understanding of mathematics. May not be taken for credit after credit has been received for 446 and does not count toward a mathematics concentration. Prerequisites: experience in secondary teaching and consent of instructor.

**452-9 (3,3,3) Advanced Calculus.** Fundamental concepts of analysis: limits, continuity, differentiation, and integration. Major topics include partial differentiation, vector analysis, Riemann-Stieltjes integrals, multiple integrals, infinite series, improper integrals, uniform convergence, Fourier series, and line and surface integrals. Must be taken in a,b,c sequence. Prerequisite: 252b.

**455-9 (3,3,3) Advanced Mathematics for the Physical Sciences.** Introduction to various topics such as complex variable theory with applications, operational calculus (Laplace and other transforms), vector field theory, and partial differential equations. May be taken separately or in any sequence. Prerequisite: 305b or consent of instructor.

**458-6 (3,3) Finite Mathematics.** An introduction to topics in finite mathematics such as logic, sets, probability, linear algebra, and Markov chains. Designed for students preparing for high school teaching and for advanced students in the behavioral sciences. Prerequisite: 252a or consent of instructor.

**460-4 Modern Geometry.** Advanced topics in Euclidean geometry by the synthetic method. Topics include the nine-point circle, Simson line, theorems of Ceva and Menelaus, coaxial circles, harmonic sections, poles and polars, similitude, and inversion. Prerequisite: 20 hours of college mathematics.

**475-9 (3,3,3) Numerical Analysis.** Introduction to approximation methods including finite differences and interpolation; numerical differentiation and quadrature; least squares approximation; numerical solution of linear and non-linear systems; numerical integration of systems of ordinary and partial differential equations. Emphasis upon error analysis throughout. Must be taken in a,b,c sequence. Prerequisites: 305a or 252b and consent of instructor.

**480-10 (4,3,3) Probability.** Introduction to probability theory. Includes the algebra of possibilities; discrete and continuous distributions, limit theorems, generating functions, and some elements of stochastic processes. Must be taken in a,b,c sequence. Prerequisite: 252b.

**483-12 (4,4,4) Introduction to Mathematical Statistics.** A mathematical development of the elements of statistical theory. (a) probability distributions, generating functions, and limit theorems; (b) statistical inference: estimation, tests of hypothesis, general linear hypothesis; (c) design of experiments—a mathematical model approach. Must be taken in a,b,c sequence with the



exception that 480a, 421a, and consent of instructor may replace 483a. Cannot be allowed university credit for both 480a and 483a. Prerequisite: 252b.

501-9 (3,3,3) **Real Variables.**

510-4 **Foundations of Mathematics.**

520-9 (3,3,3) **Modern Algebra.**

530-3 to 6 **Point Set Topology.**

536-3 **Differential Geometry.**

540-4 **Groups and Linear Transformations.**

545-4 **Intermediate Analysis for High School Teachers.**

550-1 to 10 **Seminar.**

555-9 (3,3,3) **Complex Variables.**

595-1 to 10 **Special Project.**

599-1 to 9 **Thesis.**

## Music

001-1 (1,0,0) **University Bands.** (a) Symphonic Band, (b) Stage Band, (c) Instrumental Laboratory. May be taken in any sequence. Any part may be repeated for twelve quarters. Prerequisite: a,b by audition, c by consent of instructor.

002-7 (1,1,1,1,1,1) **Choral Ensembles.** (a) Collegiate Singers, (b) University Chorus, (c) Male Chorus, (d) Women's Glee Club, (e) Southern Illinois University Community Choral Society, (f) Madrigal Singers, (g) Concert Chorale. May be taken in any sequence. Any part may be repeated for twelve quarters. Prerequisite: auditions for a,f,g.

003-1 **Orchestra.**

010-6 (1,1,1,1,1,1) **Class Applied Music.** Offered in all areas of applied music except organ, harpsichord, and harp. Include the minimum instruction required for passing the proficiency examinations in piano and voice and offer practical training in the basic principles of playing the instruments of the orchestra and band. Introductory techniques and methods for teaching instrumental and choral groups in the elementary and secondary schools.

a. **Strings**

b. **Woodwinds**

c. **Brass**

d. **Percussion**

e. **Piano**

f. **Voice**

May be taken in any sequence.

105-12 (4,4,4) **Theory of Music.** Fundamentals of music through sight singing, dictation, written and keyboard harmony. Must be taken in a,b,c sequence. Prerequisite: piano proficiency or concurrent enrollment in 010e.

140, 240, 340, 440, 540-2 or 4 **Private Applied Music.** Offered at five levels in the areas listed below. Credit is given at 2 or 4 hours on each level. Consult with adviser for details of credit and requirements. May be repeated for three quarters at each level. Students with a concentration in Performance usually take 4 hours. Concentrations in Music Education and all secondary concentrations usually take 2 hours. Prerequisite for 140: music concentration or secondary concentration or consent of music faculty. Prerequisite for higher levels: three quarters at the previous level on the same instrument or consent of instructor.

a. **Violin**

b. **Viola**

c. **Cello**

d. **String Bass**

e. **Flute**

f. **Oboe**

g. **Clarinet**

h. **Bassoon**

i. **Saxophone**

j. **Percussion**

k. **Piano**

l. **French Horn**

m. **Trumpet**

n. **Trombone**

o. **Tuba**

p. **Baritone**

q. **Voice**

r. **Organ**

s. **Harpsichord**

t. **Harp**

141-0 **Recital Class.**

200-3 **Fundamentals of Music.** Rudiments of music for those with little or no musical background. Recommended as a course preliminary to 300 (not for music concentrations). May be taken concurrently with 010e.

205-9 (3,3,3) **Theory of Music.** Advanced harmonic techniques, modulation, altered chords, chromatic harmony, counterpoint, and introduction to con-



temporary harmonic principles. Must be taken in a,b,c sequence. Prerequisite: 105c.

**240-2 or 4 Private Applied Music.** (See Music 140.)

**300-3 Music Education-Elementary.** (For non-music concentration only.) Teaching music in the elementary grades. Prerequisite: 200 or equivalent.

**301-9 (3,3,3) Music Education.** (a) Music in the elementary school curriculum, grades K-6. Analysis of instructional materials, development of rhythmic and melodic expressions, creative, instrumental, listening activities. Creating a musical environment in the classroom. (b) Junior high school: Curriculum, organization, and administration of choral, instrumental, and general music classes; resource units; the adolescent voice. (c) Senior high school: Curriculum, organization, and administration of choral, instrumental, and general music classes. May be taken in any sequence. For music concentration only.

**307-4 Recreational Music.** For those interested in the less formal approach to music and for prospective leaders for recreational activities.

**309-6 (3,3) Orchestration.** The techniques of writing for orchestral instruments. Must be taken in a,b sequence. Prerequisite: 205c.

**312-6 (3,3) Composition.** (a) Original composition in the smaller forms for piano, voice, string quartet, and other small combinations. (b) Original composition in the larger forms. Must be taken in a,b sequence. Prerequisite: 205c.

**318-6 (3,3) Conducting.** (a) General: Fundamental conducting patterns, size of beats, use of each hand; conducting experience with laboratory groups both choral and instrumental; discussion and study of musical terminology. (b) Choral and Instrumental: Continued conducting experience through laboratory group; study of rehearsal techniques, balance, blend, and the relationship of parts to the total ensemble; evaluation and analysis of literature suitable for school groups of all levels of ability. Must be taken in a,b sequence.

**326-6 (3,3) Analysis.** (a) Analysis of the important musical forms and styles from plain song through the 12-tone technique with emphasis on forms of the 18th and 19th centuries. (b) Analysis of the larger homophonic and contrapuntal forms from the 18th century to the present. Must be taken in a,b sequence. Prerequisite: 205c or consent of instructor.

**340-2 or 4 Private Applied Music.** (See Music 140.)

**355-4 (1,1,1,1) Chamber Music Ensembles.** (a) Brass, (b) Woodwinds, (c) Strings, (d) Percussion. May be taken in any sequence. Any part may be repeated for 12 quarters. Prerequisite: consent of instructor.

**357-9 (3,3,3) Music History and Literature.**

**411-9 (3,3,3) Music Literature.** (a) **Symphonic Literature.** Development of the symphony and the symphonic poems to 1900. (b) **Choral Literature.** The literature of the larger vocal forms such as the cantata and oratorio to 1900. (c) **Chamber Music Literature.** Chamber music literature from the Renaissance to the present.

**414-2 to 6 Collegium Musicum.** Practicum in the preparation and performance of music from early times to the classical period. Prerequisite: music major and/or consent of the department.

**420-1 Music Education Practicum.** A shop-laboratory course dealing with the selection, adjustments, maintenance, and repair of musical instruments.

**440-2 or 4 Private Applied Music.** (See Music 140.)

**442-6 (3,3) Contrapuntal Form.**

**451-3 Teaching General Classroom Music.**

**453-4 to 6 Workshop in Common Learnings in Music.**

**455-2 to 6 Elementary Music Education Workshop.**

**461-6 (3,3) (a) Teaching Techniques and Materials for the Beginning and Intermediate Levels.** Designed to meet the needs of applied students in which the problems of private studio teaching and college-level teaching are discussed. (b) **Teaching Techniques and Materials for the Advanced Student.** Prerequisite: 461a.

**462-2 Teaching Techniques and Materials for the Advanced Student.**

**465-3 Development and Teaching of Strings.** Place and function of string education in the elementary and secondary schools. Techniques of heterogeneous and homogeneous string teaching. Developing and sustaining interest in the string program. Resource aids. May be repeated for a total of 9 hours credit. Prerequisite: senior standing.

**481-2 to 6 Readings in Music Theory.**

**482-2 to 6 Readings in Music History and Literature.**

- 483-2 to 6 Readings in Music Education.
- 501-3 Introduction to Graduate Study in Music.
- 502-9 (3,3,3) History and Analysis of Musical Style.
- 515-3 20th Century Literature.
- 518-3 Pedagogy of Music Literature.
- 520-3 American Music.
- 522-3 Seminar: Music History and Literature.
- 535-3 Contemporary Idioms.
- 540-2 or 4 Private Applied Music. (See Music 140.)
- 550-8 (4,4) Organization and Administration of the Music Education Program. (a) elementary, (b) secondary.
- 553-6 (3,3) Seminar in Materials and Techniques. (a) choral. (b) instrumental.
- 554-3 Seminar in Instrumental Materials and Techniques.
- 556-3 Advanced Conducting.
- 560-2 to 6 Seminar in Music Education.
- 566-1 Instrumental Ensemble.
- 567-1 Vocal Ensemble.
- 599-3 to 9 Thesis.

### Nursing

Courses on the 300 level are open only to students concentrating in nursing.

- 210-4 **Nutrition.** A non-laboratory course treating principles of normal nutrition. Stress on the ability to use diet variations with people of different cultural backgrounds and economic levels.
- 280-8 (4,4) **Nursing and Community Health.** A course designed to introduce the student to nursing by way of the concept of health starting with the community. Included is an introduction to the fundamentals of nursing using the problem-solving approach and using a variety of community agencies other than the hospital as clinical facilities.
- 301-8 **Nursing I.** Study of the principles of nursing care of mother and baby throughout the maternity cycle. Supervised experience and clinical conferences correlated with theory.
- 302-8 **Nursing II.** Study of the principles of nursing care of children during illness. Supervised experience and clinical conferences correlated with theory.
- 325-8 **Psychiatric Nursing.** Emphasis on the nurse-patient relationship, leading to development of interpersonal skills which result in the nurse's ability to observe and interpret behavior, to communicate with others, and to understand the significance of such abilities in a broad social context. Supervised experiences and clinical conferences correlated with theory.
- 355-4 **Backgrounds and Trends in Nursing.** A study of nursing at the present time in relation to historical and other influences upon it. The implications for its future developments.
- 363-22 (8,6,8) **Medical-Surgical Nursing.** (1) Investigations of the scientific basis of health and physical, emotional, mental, and social deviations caused by illness. Learning experiences are based on the scientific knowledge obtained in related and correlated subjects. Emphasis upon the health needs of individuals and society, cooperative endeavors with members of the health team, and the professional nurse's unique contribution in terms of preventive, therapeutic, and rehabilitative care. (2) Supervised experience and correlated conferences in the care of individuals with medical and surgical conditions.
- 370-4 **Organization and Development of Public Health.** A study of public health as an organized program. Its philosophy, goals, methods in our complex, expanding society on the international, national, state, local levels.
- 375-8 **Nursing V.** Objectives, principles, and practices in public health nursing, application of nursing science and art, and their relationship to family and community living. Supervised experience in a public health agency conducting a generalized program. Includes orientation, demonstrations, and conferences. Prerequisite: 370.
- 382-6 **Nursing VI.** Emphasizes the need for responsible leadership in nursing. Basic principles of administration and supervision as means of developing effective relationships within health and nursing teams and other institutional and community situations.



**385—1 to 4 Independent Study.** Student projects and study carried out under guidance in investigation of a problem in an area of interest.

### Personnel and Industrial Relations

**450—4 Personnel Administration.** The functions of the personnel department in an organization; organization for personnel administration; factors affecting the efficiency of personnel; the managerial responsibility for effective personnel administration; personnel practices including recruitment, selection, employment, orientation, evaluation, transfer, promotion, dismissal, grievances, the personnel-centered approach contrasted to the task-centered approach. Case discussion and reports on selected topics assist in developing the varied responsibilities of the personnel function. Prerequisite: General Business Administration 340.

**451—4 Labor Relations Law and Collective Bargaining.** An analysis of labor relations legislation and the complex interrelations of management, employees, and labor unions, as well as of collective bargaining contracts, their scope, enforceability, and significance to labor relations. Cases and reports are incorporated. Prerequisite: General Business Administration 340.

**452—4 Advanced Problems in Personnel Administration.** Analysis of special problems of personnel administration in periods of rapid technological change. Case problems and reports are used to emphasize such pertinent areas as wage and salary administration, automation, unemployment, training, productivity, and the administration of technical and scientific personnel. Prerequisite: 450.

**453—4 Advanced Problems in Industrial Relations.** Exploration and development of labor, management, and government relations. A study of conflict and harmony between them as individual units and as a totality. Emphasis is placed on the internal grievance procedure and the roles of the National Labor Relations Board, Federal Mediation and Conciliation Service, arbitrators, and other tripartite bodies in Industrial Relations. Cases and reports are incorporated. Prerequisite: 451.

### Philosophy

**200—4 Types of Philosophy: An Introduction.** Survey of the traditional branches and problems of philosophy, such as religion, metaphysics, epistemology, ethics, political theory, aesthetics, and history.

**300—4 Elementary Metaphysics.** Presentation of answers to the most general problems of existence. An attempt to unify all scientific approaches to reality through the laying down of common principles.

**301—4 Philosophy of Religion.** An analysis of problems in the psychology, metaphysics, and social effects of religion. Among topics discussed are the nature of mystical experience, the existence of God, and problems of suffering, prayer, and immortality.

**302—4 World Religions.** A historical and comparative study of the principal religions of the world. Particular attention is given to such non-Christian faiths as Hinduism, Buddhism, and Islam.

**324—4 Symbolic Logic.** Use of symbols as tools for analysis and deduction. Study of truth tables, Boolean Expansions, propositional calculus and quantifiers, logic of relations, and their functions in logistic systems.

**342—4 Social and Political Theory.** Philosophical analysis of social values and their expression in governmental organization.

**355—4 Philosophy of Education.** Survey of theories of education and their relationships to educational policies and practices, as elucidated by the great teachers. Satisfies the education requirement, Education 355.

**360—4 Philosophy of Art.** The significance of art as a human activity, its nature and standards as seen in the problems of criticism, and the relation of art to other forms of knowledge.

**GSC 360—6 (3,3) Arts and Ideals in Famous Cities.**

**GSC or GSA 363—6 (3,3) Philosophy of Science.**

**GSC 375—6 (3,3) Ethics.**

**381—12 (4,4,4) History of Western Philosophy.** (a) Greek and early Christian. (b) Medieval and early Modern. (c) Recent. May be taken separately.

**386—4 American Philosophy.** A survey of American philosophic thought from



colonial days to the present, with emphasis on such recent thinkers as Peirce, James, Royce, Dewey, and Santayana. Prerequisite: 381b,c.

**443-4 Philosophy of History.** Classical and contemporary reflections on the nature of history and historical knowledge as the basis for dealing with the humanities. Prerequisite: consent of instructor.

**484-12 (4,4,4) History of Western Political Theory.** (Same as Government 484.) (a) Ancient and Medieval. (b) Renaissance and Early Modern. (c) Recent. May be taken separately.

**487-4 American Political Ideas.** A historical study of the political ideas of leading American statesmen and publicists, and their resulting influences upon our governmental system.

**490-2 to 12 Special Problems.** Hours and credits to be arranged. Courses for qualified seniors and graduates who need to pursue certain topics further than regularly titled courses permit. Special topics announced from time to time. Students are invited to suggest topics for individual study and papers or for group study. Prerequisite: consent of instructor.

### Physical Education

**025-0 Orientation.**

**303-5 Kinesiology.** Study of joint and muscle action as a basis for the mechanical analysis of human physical movement in daily life and in physical education activities and sports. Prerequisite: 310.

**305-3 Physical Education for the Atypical Student.** The recognition of physical deviations and the provisions of special or modified physical education or recreational activities for such students. Prerequisite: 303.

**312-2 to 6 Playground Leadership.** (Field Experiences)

**321-2 to 6 Methods of Teaching Physical Education for Women.** (a) Team sports, (b) Dance, (c) Individual sports. Prerequisite: consent of instructor or adviser.

**323-3 (1,1,1) Officiating Techniques.** Study of rules and their interpretation; requirements for ratings given by the United States Field Hockey Association and the Division for Girls' and Women's Sports. Officiating practice required. (a) Fall: field hockey and soccer. (b) Winter: basketball. (c) Spring: volleyball and softball.

**341-3 Principles of Physical Education.** The scientific foundations of physical education based on accepted principles of psychology, physiology, sociology, biology, educational method, philosophy, anatomy, kinesiology, and related areas.

**348-3 Camp and Community Leadership.** Fundamentals of scouting, camping, and counseling. A weekend camping trip required.

**349-2 Camping Education.** Designed to give the potential camp counselor an understanding of the camp; its physical set-up, equipment and necessary routines; its personnel, purpose, traditions, and possibilities.

**350-4 Methods and Materials for Teaching Physical Education Activities in the Elementary School.** The organization and conduct of the program, program planning, evaluation of materials, observation and practice in creative rhythms, singing games, folk dancing, and games of low organization. (Required for elementary education.)

**352-2 History and Physical Education.** A study of the background and development of physical education.

**354-3 Organization and Administration of Physical Education and Athletics.** The organization and conduct of the total program of physical education including interscholastic athletics based upon accepted educational policies and practices. Emphasis on problems of administration.

**355-2 Techniques of Teaching Swimming.** Methods of teaching, analysis of strokes, and the devices for teaching swimming and life saving. Prerequisite: Senior Lifesaving.

**365-2 to 4 Organization and Administration of Community Recreation.** The social, economic, and governmental structure of the community; establishing the community recreation program; problems of facilities, equipment, finance, promotion; selecting and supervising personnel; integration with associated programs.

**370-4 Tests and Measurements in Physical Education.** Measurement as an aid in determining student needs, curriculum construction, teaching effectiveness,

and the attainment of educational objectives. Includes the selection, administration, and interpretation of tests.

**376-3 Emergency Care and Prevention of Athletic Injuries.** The theoretical and practical methods of preventing and treating athletic injuries. Techniques of taping and bandaging, emergency first aid, massage, use of physical therapy modalities.

**381-4 Theory of Coaching.** Principles underlying participation in competitive interscholastic athletics. Theory of coaching sports, technique, strategy, organization and administration of programs.

**402-4 Organization and Administration of Intramural and Extramural Activities.** Planning intramural programs of sports. Planning and co-ordinating extramural activities commonly associated with physical education.

**420-4 Physiological Effects of Motor Activity.**

**500-4 Techniques in Research.**

**501-4 Curriculum in Physical Education.**

**502-4 Foundations of Motor Skills.**

**503-4 Seminar in Physical Education.**

**504-4 Problems in Physical Education.**

**509-4 Supervision of Health and Physical Education.**

**525-1 to 6 Readings in Physical Education.**

## Physics

**206-15 (5,5,5) College Physics.** Designed to meet premedical requirements and the needs of students majoring in the biological sciences. Laboratory. Must be taken in a,b,c sequence. Prerequisite: GSD 114b.

**211-12 (4,4,4) University Physics.** A basic course for science, mathematics, and pre-engineering students: (a) mechanics; (b) light, sound, and heat; (c) electricity and magnetism. Three lecture and two recitation hours per week. Must be taken in a,b,c or a,c,b sequence. Prerequisite: Mathematics 150a or concurrent enrollment; (b,c) 211a, Mathematics 150b, or concurrent enrollment.

**212-3 (1,1,1) University Physics Laboratory.** Consists of experiments in mechanics, heat, sound, light, electricity, and magnetism. Meets three hours per week. Prerequisite: concurrent enrollment in 211.

**300a-4 University Physics IV.** A continuation of 211 covering modern physics. Three lecture and two recitation hours per week. Prerequisites: 206 or 211, Mathematics 252b or concurrent enrollment.

**300b-1 University Physics Laboratory IV.** Consists of the classic experiments in modern physics; Millikan oil drop,  $e/m$ , Franck-Hertz, Foucault velocity of light and black body radiation along with experiments in nuclear physics. Prerequisite: concurrent enrollment in 300a.

**301-8 (4,4) Mechanics.** Intermediate mechanics using vector analysis and covering statics, dynamics, rigid body motion, wave motion, LaGrange methods, and small oscillations. Must be taken in a,b sequence. Prerequisites: 211a, Mathematics 305a, or concurrent enrollment.

**304-3 Thermodynamics.** A macroscopic study of the thermal properties of matter and the laws of thermodynamics. Prerequisites: 211b and Mathematics 252b.

**305-8 (4,4) Introduction to Electromagnetic Field Theory.** Vector treatment of the theory: electrostatics in vacuum and in matter, steady currents, magnetism, magnetic materials, and electromagnetic radiation. Must be taken in a,b sequence. Prerequisite: 211c, Mathematics 305a, or concurrent enrollment.

**307-2 Electric Measurements.** A laboratory course in the application and use of electrical instruments such as VTVM, VOM, Oscilloscope, A.C. and D.C. bridges, potentiometers, and other calibration equipment. One lecture and two lab hours per week. Prerequisite: 211 or 206.

**309-4 Electronic Circuits.** Electron tube and transistor circuit principles and applications. Two lecture and four laboratory hours per week. Prerequisite: 211c.

**310-4 Light.** Light propagation and optical instruments: reflection, refraction, interference, diffraction, and polarization of light. Prerequisite: 211b.

**311-1 Optics Laboratory.** Advanced experiments in geometrical and physical optics. Two laboratory hours per week. Prerequisite: 310 or concurrent enrollment.



**375—0 to 6 Seminar.** Topics selected from a wide range of physical theories and applications (maximum credit per quarter 2 hours). Prerequisite: consent of instructor. Junior or senior standing recommended.

**404—3 Introduction to Statistical Mechanics.** A brief treatment of the kinetic theory of gases; introduction of phase spaces and ensemble theory. Shows the connection between mechanical and thermodynamic concepts and obtains a statistical interpretation of thermodynamic processes. Prerequisites: 301, 304, or consent of instructor.

**415—12 (4,4,4) Modern Physics.** Elements of wave mechanics, atomic and nuclear physics, and special relativity. Must be taken in a,b,c sequence. Prerequisites: 300a and Mathematics 305.

**418—1 to 4 Modern Physics Laboratory.** An advanced laboratory course including work with pulsed and continuous lasers and optical detectors, nuclear magnetic resonance, nuclear spectroscopy, vacuum techniques, mass and beta spectroscopy, and semiconductor physics. Prerequisites: 300, 307, or consent of instructor.

**420—2 to 5 Special Projects.** Each student is assigned to a definite investigative topic. Adapted to advanced undergraduate students. Prerequisite: 8 hours of physics courses above 300.

**435—3 Plasma Physics.** Basic equations and conservation laws; first order orbit theory with applications to static and dynamic problems; small amplitude plasma waves; hydromagnetic shocks; collision effects; diffusion across a magnetic field; stability; coupling of plasmas and radiation. Prerequisite: 305a,b.

**445—8 (4,4) X-Ray Crystallography.** (a) Symmetry elements, development of space groups, reciprocal space, geometrical theory of diffraction, determination of lattice parameters, Fourier representations of periodic structure. (b) Production of x-rays, kinematical theory of x-ray diffraction, diffraction techniques, factors affecting the intensity of reflections, extinction contrast methods, introduction to the dynamical theory. Must be taken in a,b sequence. Prerequisite: 300.

**450—3 Introduction to Solid-State Physics.** A study of the fundamentals of solid-state physics including classification of solids, interatomic and intermolecular forces, lattice energies, specific heats, lattice dynamics, free electron theory of metals, lattice defects, color centers, luminescence, magnetic materials, radiation damage, transport in ionic crystals. Fermi-Dirac statistics, Fermi distribution, and semiconductors. Prerequisites: 300, 305; 304 or consent of instructor.

**510—9 (3,3,3) Classical Mechanics.**

**530—9 (3,3,3) Electromagnetic Theory.**

**531—9 (3,3,3) Quantum Mechanics.**

**540—3 Nuclear Physics.**

**560—3 Statistical Mechanics.**

**570—3 Solid State Physics.**

**575—1 to 4 Graduate Seminar.**

**580—3 to 6 Selected Topics in Physics.**

**590—1 to 9 Research in Physics (Thesis).**

## Production

**460—4 Production Management.** Analysis of the basic functions of manufacturing firms. Students work on a project of their choice in conjunction with the lectures and class discussions. Topics include blueprint reading, equipment and tools, plant layout, product flow, materials handling, quality control, cost control, production control, methods engineering, product engineering, inventory control, the use of PERT, and financial concepts as related to production management. Several plant visits are conducted during the course. Prerequisite: General Business Administration 340.

**461—4 Methods Design and Work Measurement.** Design of work systems, methods, and the techniques employed in the measurement of work. Emphasizes current philosophy underlying improvement of work methods and procedures used to measure work performed. The course covers four major areas: methods design, standardizing the operation, work measurement, and training the operator. A number of projects correlating with the course material are assigned. Prerequisite: 460.

**462—4 Production Planning and Control.** Analyzes and describes the recurrent



problems of managing the flows of materials, services, and information produced in response to changes in market demand. Emphasizes the top-level decisions necessary to plan and control operations so that customers are served on time and penalty costs are minimized, as well as the decisions made by middle and first line managers in regard to scheduling and controlling, purchasing, production, and distribution. Selected decision-making techniques are analyzed and evaluated from the production manager's point of view. Prerequisite: 460.

**463-4 Advanced Production Management.** Examines the operating decisions that confront the managerial and supervisory production personnel of large, medium, and small scale manufacturing firms using a variety of production processes. Emphasizes decision-making leading to the solution of production operating problems, and to the formulation of plans of action. Assigned cases provide a view of the types of decisions involved in planning, organizing, coordinating, integrating, and controlling resources so that production goals may be realized. Prerequisites: 460, 461 and 462.

## Psychology

**211-8 (4,4) Principles and Methods of Psychology.** An introduction to the experimental methods utilized in the study of behavior. (a) The application of methods to the study of sensation, perception, and learning; (b) The analysis and interpretation of psychological data. Lecture and laboratory. Prerequisite: GSB 201c.

**301-4 Child Psychology.** A study of the biological and psychological development of the child from birth through puberty, and of relevant research methods and results. Prerequisite: GSB 201c.

**303-4 Adolescent Psychology.** Examines the physical and psychological development of the adolescent, and the relevance of childhood development to adolescent problems. Prerequisite: GSB 201c.

**304-4 Psychology of Maturity and Old Age.** A consideration of psychological factors in later maturity and old age and their concomitant problems, both individual and societal. Prerequisite: GSB 201c.

**305-4 Introduction to Personality Dynamics.** Exploration of human motivations, personality patterns, and ways of coping with the stresses of modern life. Prerequisite: GSB 201c.

**307-4 Social Psychology.** Introduction to the study of the individual's interaction with his social environment. Considers problems of social learning, attitude formation, communication, social influence processes, and group behavior. Prerequisite: GSB 201c.

**311-4 Experimental Psychology: Learning.** Investigates the processes governing behavioral change. Emphasizes experimental studies of conditioning, memory, and forgetting. Laboratory work includes the design and conduct of experiments with humans and animals. Lecture and laboratory. Prerequisite: 211a,b.

**312-4 Experimental Psychology: Perception.** Investigates the variables influencing an organism's stimulation by his environment. The structure and operation of the sense organs as well as complex perceptual phenomena are examined in lectures and laboratory. Prerequisite: 311.

**313-4 Experimental Psychology: Motivation.** An examination of both biological and social variables influencing the activation, direction, and maintenance of behavior. Laboratory work examines the effects of motivation upon behavior. Lecture and laboratory. Prerequisite: 311.

**314-4 Experimental Psychology: Comparative and Physiological.** An examination of the physiological and phylogenetic variables affecting behavior. The laboratory involves work with different types of organisms emphasizing physiological concomitants of behavior. Lecture and laboratory. Prerequisite: 311.

**320-4 Industrial Psychology.** A study of the functions of psychology as a science and as a profession in contemporary business and industry. Prerequisite: GSB 201c.

**404-4 Theories of Perception.** An examination of the different theories concerned with an organism's sensory contact with his environment. Physiological, social, and organizational theories of perception. Prerequisite: 312 or consent of instructor.

**406-4 Learning Processes and Applications.** An examination of processes by which behavior is acquired, changed, or extinguished; an application of learning

principles developed in the learning laboratory. Prerequisite: consent of instructor.

**407—4 Theories of Learning.** A consideration of the major contemporary learning theories and their relation to experimental data. Prerequisite: 311 or consent of instructor.

**408—4 Theories of Motivation.** An examination of instinct theories, biological drives, emotions, social motives, and psychodynamic theories as they contribute to a comprehensive psychology of motivation. Prerequisite: 313 or consent of instructor.

**409—4 History and Systems.** Study of the important antecedents of contemporary scientific psychology. Considers issues, conceptual developments, and research advances, and presents the major schools and systems. Prerequisite: signed consent of psychology adviser.

**420—4 Scientific Methodology of Psychology.** Scientific methodology as an approach to investigation and classification of problems involved in understanding the psychological nature of man. Prerequisite: consent of instructor.

**421—4 Psychological Tests and Measurements.** Principles of psychological measurement, including errors of measurement, techniques for estimating reliability and validity, techniques of test construction, and problems in assessment and prediction. The laboratory includes the use of selected instruments. Lecture and laboratory. Prerequisite: 211b and consent of instructor.

**431—4 Psychopathology.** Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.

**432—4 Mental Hygiene.** An integration of psychological knowledge and principles concerning factors and conditions affecting the individual which tend to facilitate or determine health.

**440—4 Theories of Personality.** A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.

**451—4 Advanced Child Psychology.** An examination of the concepts, methods, and problems of human development with consideration of both its psychological and psychosocial aspects. Prerequisite: 301 or 303 or consent of the instructor.

**461—4 Advanced Social Psychology.** Examines current areas of interest in the study of social behavior: language behavior, communication, social influence, attitude change, interpersonal perception, etc. Emphasis is on the individual in the social context. Prerequisite: 307 or consent of instructor.

**465—4 Group Dynamics and Individual Behavior.** Examination of research and theory in the area of small-group interaction. Examines such topics as group structure and function, group problem-solving, leadership, etc. Prerequisite: 320 or consent of instructor.

**471—4 Work Methods and Measurement.** A study of the analysis and evaluation of jobs and the measurement of work performances by the use of standard time tables. Prerequisite: 320 or consent of instructor.

**473—4 Personnel Psychology.** Psychological methods in selection, placement, evaluation, and criterion development. Emphasis is on principles and techniques with some examples of application to decision making in business and industry. Prerequisite: 320 or consent of instructor.

**474—4 Psychology of Employee Relations.** A study of job satisfaction and morale, psychological aspects of labor relations, industrial counseling, social and organizational variables as they affect psychological climate in employee relations. Prerequisite: 320 or consent of instructor.

**479—4 Psychology of Industrial Conflict.** Consideration of social and psychological factors underlying controversies between workers and management. Prerequisite: 320 or consent of instructor.

**490—1 to 8 Independent Projects.** Independent readings and projects in psychology. Prerequisite: consent of instructor and chairman.

**495—1 to 8 Seminar: Selected Topics.** Varied content. To be offered from time to time as need exists and as faculty interest and time permit. Prerequisite: consent of instructor.

**501a—4 Proseminar in General Psychology.**

**501b—4 Proseminar in General Psychology.**

**501c—4 Proseminar in General Psychology.**



512-4 Sensory Processes.  
514-8 (4,4) Physiological Psychology.  
520-4 Research Design & Inference I.  
521-4 Research Design & Inference II.  
522-4 Research Design & Inference III.  
530-4 Personality Theory and Dynamics.  
531-2 to 4 Advanced Psychopathology.  
537-4 Counseling and Psychotherapy.  
541a-4 Psychodiagnostics I.  
541b 2 to 4 Psychodiagnostics I.  
543-6 (4,2) Psychodiagnostics II.  
552-4 Experimental Child Psychology.  
556-2 Psychological Treatment of the Child.  
561-4 Social Influence Processes.  
564-4 Communication and Group Behavior.  
571-4 Industrial Motivation and Morale.  
590-1 to 16 Readings in Psychology.  
591-1 to 36 Research in Psychology.  
593-1 to 18 Practicum in Psychology.  
598-2 Ethical and Professional Problems in Psychology.  
599-1 to 9 Thesis.

### Quantitative Methods

210-4 Probability in Decision Making. Introduction to certain modern mathematical concepts and methods applicable to business decisions including probability, probability distributions, and elements of calculus. Prerequisite: GSD 114d.  
211-4 Statistical Analysis for Business Decisions. A further exploration of statistical concepts as applied to business situations including analysis of variance, multiple regression analysis, and non-parametric statistics, under conditions of uncertainty. Prerequisite: 210.  
304-4 Introduction to Statistics (MBA). A survey of statistics. Specifically, hypothesis testing and confidence interval determination. Three hours lecture; two hours laboratory. Does not carry graduate credit. Restricted to MBA students.  
310-4 Operations Research for Managers. An introduction to the body of analytical techniques comprehended by the phrase "operations research" with emphasis upon their application to business situations. Includes an introduction to matrix algebra and its use in linear programming. Prerequisite: 211.

### Radio-Television

251-3 Survey of Broadcasting. Examinations of the history of the American system of broadcasting, including discussions of the industry, network structure, and local station organization and economics. Similar examination of various systems of foreign broadcasting.  
273-3 Fundamentals of Radio Program Production. Techniques of producing and directing various types of radio programs with emphasis on the creative use of sound effects and music. Matters of timing, pacing, perspectives, and microphone techniques.  
274-5 Basic Television Production. Use of equipment and basic techniques in production of television programs of all types. Three one-hour lectures and one four-hour laboratory per week.  
358-4 Radio Writing. Oral forms of writing for radio, including commercials, features, music scripting, women's and children's programs, etc. Prerequisite: 273.  
359-4 Television Writing. The writing of continuity forms for television. The writing of dramatic and documentary scripts for television, with emphasis on development of ideas and plot construction. Prerequisites: 274 and 358.  
393-3 Radio, Television, and Society. The interrelation of radio and television with social habit patterns and with economic and political systems. International broadcasting. Prerequisite: 251.



### Rehabilitation

- 480-2 **Introduction to Rehabilitation.** A survey of historical and legal developments in rehabilitation agencies, with particular emphasis on current theories and trends.  
541-2 **Medical Aspects of Rehabilitation.**  
561-2 **Psycho-Social Aspects of Disability.**  
580-1 to 6 **Practicum in Rehabilitation Services.**  
585-4 **Practicum in Rehabilitation Counseling.**  
589-0 to 12 **Internship in Rehabilitation.**

### Science and Technology

- 390-1 to 15 **Science and Technology Honors.** Honors work in the biological sciences, chemistry, mathematics, or physics. Entrance by invitation of the Science and Technology Honors Program Committee. Prerequisite: junior or senior standing.

### Secondary Education

- 315-4 **High School Methods.** Study and discussion in various types of procedures used for effective classroom teaching. The problem approach and unit method are stressed. Prerequisite: Counselor Education 305 and Educational Administration 335.  
352d-8 to 12 **Secondary Student Teaching.**  
352e-4 to 8 **Advanced Secondary Student Teaching.** Prerequisite: 352d-8.  
407-4 **The Junior High School.** The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum.  
440-3 to 4 **Teaching Reading in High School.** A foundation course in how to teach reading in junior and senior high school: developmental and corrective reading programs, appraisal of reading abilities; methods and materials of instruction. Prerequisite: Counselor Education 305.  
487-4 **Teaching the Natural Sciences in Secondary Schools.** Objectives of science education; instruction methods and techniques appropriate for teaching science; desirable equipment, audio-visual aids, and instructional materials; development of a course outline and at least one instruction unit.  
488-4 **Teaching Social Studies in Secondary Schools.** Objectives, scope and sequence of curriculum, methods of teaching different courses and age groups, materials and evaluation. Prerequisite: 315.  
490-4 **Workshop in Economics Education.** A study of newer programs stressing economic understanding of the social studies in the secondary school. (See Economics 490.)  
505-4 **Improvement of Reading Instruction.**  
507-2 to 4 **Readings in Reading.**  
508-4 **Seminar: Trends in Selected Areas in Secondary Schools.**  
509-4 to 8 **Practicum in Reading.**  
514-4 **Organization and Administration of Reading Programs.**  
518-2 to 4 **Supervision of Student Teachers.**  
521-12 (4,4,4) **Diagnosis and Correction of Reading Disabilities.**  
550-4 **Core Curriculum in the Secondary School.**  
562-4 **The High School Curriculum.**  
564-4 **High School Principalship.**  
570-4 **Extra-Class Activities.**  
575-2 to 4 **Individual Research.**  
591-4 **Workshop in Current Problems in Secondary Education.**  
596-5 to 9 **Independent Investigation.**  
597-1 to 3, 598-1 to 3, 599-1 to 3 **Thesis.**

### Social Welfare

- 380-4 **Social Welfare as a Social Institution.** Interdependence of social, cultural, political and economic factors in the history, theory and practice of social

welfare, with special reference to development of the social work profession in response to welfare problems. Prerequisite: 301 or GSB 103a.

**383-4 Introduction to Interviewing.** Theory and practice of interviewing as a means of gaining information, and of understanding and imparting the same. Focus is on the interview as a tool in social work, but principles are generally applicable. Prerequisite: 301 or GSB 103a or 201c.

**389-2 to 5 Readings in Social Welfare.**

**481-4 Processes in Social Work.** Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, administration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: 375 or consent of instructor.

**482-4 Social Work in Selected Agencies.** Study of representative literature on casework in family, psychiatric, medical, school, military, child welfare, and correctional settings, and others. Case material study and discussion with field observation and practice. Prerequisite: 481.

## Sociology

Courses in sociology are listed according to numerical order. However, the second digit in the course number indicates its field as follows:

- 00-09 General Sociology
- 10-19 Methodology and Research Techniques
- 20-29 Social Psychology
- 30-39 Social Organization and Structure
- 40-49 Family
- 50-59 Sociology of Knowledge
- 60-69 Social Disorganization and Deviance
- 70-79 Special Fields
- 80-89 Applied Fields

**241-4 Marriage and Parenthood.**

**301-4 Principles of Sociology.** The structure and functions of social relationship systems, both simple and complex. Analysis of processes of social differentiation, integration, and disorganization. Prerequisite: junior standing.

**302-4 Contemporary Social Problems.** Discussion and analysis of selected contemporary social problems with consideration of alternative courses of action. Prerequisite: 301.

**306-4 Social Control.** The means and principles of social controls; social institutions as factors in control; techniques of directing social action. Prerequisite: 301 or GSB 103a.

**308-3 Statistics for Social Science.** Methods and application of statistics in the social sciences. Statistical methods in demography, ecology, testing and guidance, social problems. Examination of empirical studies in these and related areas. Prerequisite: junior standing or consent of instructor.

**312-4 Elements of Sociological Research.** Types of research. Principles and steps in research procedure. Selected techniques. Prerequisite: 308 or GSD 114d-3.

**320-4 Race and Minority Group Relations.** Racial and cultural contacts and conflicts; causes of prejudice; status and participation of minority groups; national and international aspects of minority problems.

**321-4 Socialization of the Individual.** The process of socialization in infancy, childhood, and adolescence; development of habits; attitudes, sentiments; emergence of the self; integration of the individual and society. Prerequisite: 301 or GSB 103a.

**322-4 Propaganda and Public Opinion.** Techniques and characteristics of propaganda; methods of measuring public opinion. Prerequisite: 301 or GSB 103a.

**332-4 Social Organization.** An examination of the determinants of social organization; intensive analysis of institutional configurations, social stratification, and systems of social control; review of significant writing. Prerequisite: 301.

**333-4 Community Organization.** Factors involved in community organization; types, aims, and objectives; community diagnosis; individual case study of specific community. Prerequisite: 301 or GSB 103a.

**335-4 Urban Sociology.** The rise, development, structure, culture, planning, and problems in early and modern cities. Prerequisite: 301 or GSB 201b.



**338-4 Industrial Sociology.** Social organization and processes within the formal and informal structure of the industrial unit; research and experimental materials concerning social determinants of morale, status, and role of the worker. Prerequisite: 301 or GSB 103a.

**340-4 The Family.** The family in historic and contemporary society; evolution of the modern family; changes in family functions, structures, and roles. Prerequisite: 301 or GSB 103a.

**GSB 341-3 Marriage.**

**351-4 Sociology of Religion.** Function of religious institutions in society and their relationship to other major social institutions; role in social control and group solidarity. Prerequisite: 301 or GSB 103a.

**GSB 359-6 Society and State: Social and Political Theories.**

**371-4 Population and Migration.** Characteristics of population, problems of growth, composition, distribution differential fertility, international and internal migration. Prerequisite: 301 or consent of instructor.

**372-4 Criminology.** The nature of crime; criminal statistics; causal factors; theories and procedures in prevention and treatment. Prerequisite: consent of instructor.

**373-4 Juvenile Delinquency.** Nature of juvenile delinquency; factors contributing to delinquent behavior; treatment and prevention.

**374-4 Sociology of Education.** Methods, principles, and data of sociology applied to the school situation; relation of the school to other institutions and groups. Prerequisite: 301 or GSB 103a, or consent of instructor.

**388-3 Workshop in Inter-Group Relations.** Designed to provide theoretical and practical understanding of the cultural, social, and psychological factors associated with inter-group tension. Participants concentrate their efforts on problem-solving activities related to their occupational, professional, or civic interests. Resource and consultative staff from the academic areas of education, psychology, sociology, and social work. Prerequisite: consent of instructor.

**396-1 to 5 Readings in Sociology.** Supervised reading in selected subjects. Prerequisite: consent of chairman.

**405-4 Current Sociology.** A survey of important trends in contemporary social thought. Reading, reporting, and evaluating content of leading sociological journals. Prerequisite: consent of instructor.

**406-4 Social Change.** Processes of social change in the modern world; culture lag and conflict of norms; individual and social problems arising from conflicting systems of social values and cultural norms. Prerequisite: 301 or GSB 103a.

**412-4 Sociological Research.** Application of the scientific method to sociological problems. The role of theory. Principles of good research design, measurement, sampling and analysis. Prerequisite: Graduate status or consent of instructor.

**424-4 Collective Behavior.** The behavior of people in large groups; collective interstimulation and emotions; crowds, audiences, and publics; mass stimuli and mass response. Prerequisite: 321 or 322, or consent of instructor.

**426-4 Social Factors in Behavior and Personality.** How group situations and values affect behavior and shape personality; development of concepts, role-concepts, attitudes, values; theories of motivation; self-concepts; conflicting social values in relation to individual motivation. Prerequisite: 321 or Psychology 305, or consent of instructor.

**427-4 Personality and Social Adjustment.** Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and non-adjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite: 321 or Psychology 305 or consent of instructor.

**435-4 Social Stratification.** A comparative study of social class systems, with emphasis on the American systems. Relationships of class position to behavior in family, religion, politics, etc. Prerequisite: 301 or GSB 103a.

**438-4 Sociology of Occupations.** Natural history and institutional aspects of occupations in our society, cultural context of occupations in both primitive and modern society, preparation for jobs, human values in work, promotion and discharge, mobility, retirement. Prerequisite: 301 or GSB 103a.

**450-4 Social Thought I: Before 1800.** The ideological basis of Western society. The classical foundations. Trends of thought from the Renaissance to the Enlightenment. Prerequisite: consent of instructor.

**451-4 Social Thought II: The Sociological Movement.** From Romanticism to



Realism; rise and development of scientific social thought. Prerequisite: consent of instructor.

**453-4 Social Movements.** A sociological study of modern social movements; social and cultural backgrounds, forms of expression and organization; social structure of social movements, their role and function in modern society. Prerequisite: 301 or GSB 103a.

**470c-4 Urban Planning.** (See Government 470.)

**472-4 Treatment and Prevention of Crime.** Principles of penology; history of punishment and prisons; criminal law, police function, criminal courts; the prison community; the juvenile court and related movements. Prerequisite: 372 or consent of instructor.

**483-3 Current Problems in Corrections.** An exploration of contemporary problems in the control and treatment of sentenced offenders. Prerequisite: consent of instructor.

**484-4 Survey Course in Marriage Counseling.** Survey and analysis of the field of marriage counseling; assessment of current practices and techniques in terms of contemporary sociological theory. Prerequisite: GSB 341 and consent of instructor.

**485-6 Community Programs for the Prevention of Juvenile Delinquency.** Analysis of delinquency prevention in community programs administered by various agencies. A critique of existing programs and development of experimental programs. The roles of professional workers pertinent to such programs is delineated with special reference to the public school administration, counselor, the social workers, the court, probation officers, and police. Prerequisite: consent of instructor.

**489a-3 The American Correctional System.** A survey of the correctional field covering probation, institutions, and parole; their historical development, organizational structure, program content, and current problems.

**489b-4 Probation, Classification, and Parole.** An introduction to the structure and function of those elements of the correctional process primarily concerned with the evaluation, treatment, and control of offenders with particular attention to the casework components of the process. Prerequisite: 481 or consent of instructor.

**501-4 Survey of Sociological Theory.**

**504-4 Seminar in American Sociology.**

**506-4 Seminar in Contemporary Sociological Theory.**

**519-4 Methodological Foundations of the Social Sciences.**

**521-4 Seminar in Social Psychology.**

**534-4 Seminar in Intergroup Relations.**

**538-4 Seminar in Industrial Sociology.**

**542-4 Seminar on the Family.**

**596-2 to 12 Readings in Sociology.**

**599-2 to 9 Thesis.**

## Special Education

**351d-8 Elementary Student Teaching.**

**410a-4 Problems and Characteristics of the Emotionally Disturbed Child.** Diagnosis, screening, classroom management, placement considerations, goals, and the effective use of ancillary services. Emphasis on the understanding of maladaptive behavior through principles of learning and behavior dynamics. Observations.

**410b-4 Problems and Characteristics of the Mentally Retarded.** Objectives, curriculum, methods, and materials of instruction for slow learners. Emphasis upon the principles of learning as they can be applied to this group. Observations. Prerequisite: Counselor Education 305 or Psychology 301 or 303.

**410c-4 Problems and Characteristics of the Gifted Child.** Designed to help teachers in the identification of, and programming for, gifted and talented children. Prerequisite: Counselor Education 305 or Psychology 301 or 303.

**413a-4 Directed Observation of the Emotionally Disturbed.** Taken concurrently with 410a. Provides student observation and participation in individual work with emotionally disturbed children.

**413b-4 Directed Observation of the Educable Mentally Handicapped.** Taken concurrently with 410b. Provides student observation and participation in indi-

vidual work with educable mentally handicapped children. Prerequisite: consent of instructor.

**413c-4 Directed Observation of the Gifted.** Taken concurrently with 410c. Provides student observation and participation in individual work with gifted children. Prerequisite: consent of instructor.

**414-4 The Exceptional Child.** Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisites: Counselor Education 305 and Psychology 301 or 303.

**417-4 The Atypical Child and Social Agencies.** A survey of social agencies contributing to the welfare and care of exceptional children. Emphasis given to services rendered and to methods of contact and cost. Visits made to agencies and institutions. Specialists invited to appear before the class. Prerequisites: Counselor Education 305 or Psychology 301 or 303, and Sociology 101.

**420a-4 Methods and Materials in the Education of the Emotionally Disturbed.** Offered in conjunction with practice teaching. Methods and materials needed in teaching emotionally disturbed children.

**420b-4 Methods and Materials in the Education of the Educable Mentally Handicapped.** Offered in conjunction with practice teaching. Methods and materials needed in teaching educable mentally handicapped children.

**420c-4 Methods and Materials in the Education of the Gifted.** Offered in conjunction with practice teaching. Methods and materials needed in teaching gifted children.

**428-4 Speech Correction for the Classroom Teacher.** (Same as Speech Pathology and Audiology 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.

**481a-4 Seminar: Emotionally Disturbed.**

**481b-4 Seminar: Educable Mentally Handicapped.**

**481c-4 Seminar: Gifted.**

**501-4 Special Research Problem.**

**513-4 Organization, Administration, and Supervision of Special Classes.**

**518-4 Workshop in Special Education.**

**570-2 Seminar: Vocational Guidance of the Handicapped.**

**571-2 Special Problems of the Handicapped I.**

**572-2 Special Problems of the Handicapped II.**

**577-4 to 12 Practicum in Special Education.**

**580-8 (4,4) Seminar: Education of Exceptional Children.**

**590-12 (4,4,4) Seminar: Mental Retardation.**

## Speech

**104-4 Training the Speaking Voice.** Designed for those students who desire to improve their voice and articulation. Prerequisite: GSD 103.

**202-3 Principles of Discussion.** Principles and methods of group discussion. Current problems used as materials for discussion.

**205-3 Principles of Argumentation and Debate.** Principles of argument, analysis, evidence, reasoning, fallacies, briefing, and delivery.

**224-4 Communicative Reading.** Study of and practice in the analysis of literature and its oral communication to an audience.

**301-4 Persuasion.** Psychological principles involved in influencing individuals and groups.

**303-4 Business and Professional Speaking.** Speaking needs of business and professional people. Technical reports and lighter types of speaking included in the types studied. Primarily for adult and extension classes.

**309-1 Forensic Activities.**

**406-4 Teaching Speech in Secondary Schools.** Philosophy of speech education, and effective teaching of speech through curricular and extra-curricular work. Prerequisite: 16 hours of speech.

**407-8 (4,4) History of American Public Address.** Critical studies of American speakers; selected speakers and speeches which reflect the dominant social and political ideas in American history. A lecture, reading, and discussion course. May be taken separately.

**408-4 Psychology of Speech.** Nature and development of speech, its basic psychology, and the part speech plays in personality development.



**449—4 General Semantics.** Means of changing implications so that language, in spoken or written form, describes the life facts.

### Speech Pathology and Audiology

**100—0 to 2 Speech Clinic.** Designed for students with speech and hearing deviations who need individual help.

**200—4 Phonetics.** Instruction in the use of phonetic symbols to record the speech sounds of midland American English, with emphasis on ear training, and a description of place and manner of production of these sounds.

**203—4 Introduction to Speech Science.** An introduction to the science of general speech including the history of research in the field and significant experimental trends in the future. Open to all students.

**212—4 Articulatory Problems and Delayed Speech.** Designed to acquaint the student with articulatory speech defects. Diagnostic and therapeutic techniques stressed. Prerequisite: 200 or concurrent registration.

**318—4 Voice and Cleft Palate.** Voice disorders including cleft palate. Prerequisite: 212 or consent of instructor.

**319—4 Stuttering.** Deals with diagnostic and therapeutic techniques for the understanding and treatment of stuttering. Prerequisite: 212 or consent of instructor.

**405—12 (4,4,4) Practicum in Speech and Hearing Therapy.** Clinical and school procedures in speech correction and audiology. One hour of class per week, and two hours of clinical activity or work on clinically related projects for each hour of credit. Prerequisite: junior standing in department. 405a (fall) emphasizes therapeutic procedures. 405b (winter) emphasizes diagnostic techniques. 405c (spring, summer) emphasizes the utilization of forms and the preparation of reports. May be taken in any sequence.

**406—4 Techniques and Interpretation of Hearing Tests.** Principles and techniques of testing the hearing and interpreting those tests in terms of the individual's needs.

**412—4 Cerebral Palsy.** An investigation of the etiology, problems, and therapy of cerebral palsy. Prerequisite: 212 or consent of instructor.

**414—4 Anatomy and Physiology of Speech and Hearing Mechanisms.**

**415—4 Aphasia.** An investigation of the etiology, problems, and therapy of aphasia. Prerequisite: 412 or consent of instructor.

**419—4 Communication Problems of the Deaf and Hard of Hearing.** (Same as Special Education 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.

**428—4 Speech Correction for the Classroom Teacher.** (Same as Special Education 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.

### Theater

**111—9 (3,3,3) Staging Techniques.** All phases of dramatic production in connection with departmental public presentations. Lectures and laboratory.

**204—4 Acting.** Basic techniques of acting in all dramatic media. Emphasis on expression through bodily action and movement.

**207—4 Fundamentals of Theatrical Design.** A basic course employing graphic media and workshop exercises designed to acquaint theater majors with the problems encountered by the director, scene designer, costumer, and lighting director in providing a suitable environment, by visual means, for the actor.

**224—4 Communicative Reading.**

**311—4 Introduction to Playwriting.** The preparation of a one-act play from germinal idea to completed script. Those scripts indicating a certain level of artistry and technical control to be produced in a laboratory theater program. Course includes the analysis of dramaturgical technique and theory through the study of selected plays and criticism. Prerequisite: one course in dramatic literature and consent of instructor.

**GSC 354—6 (3,3) History of the Theater.**

**402—8 (4,4) Play Directing.** (a) The principles and procedures of play direction including play selection, interpretation, and the patterning of auditory and



visual stimuli. (b) Continuation of 402a emphasizing rehearsal procedures, control of tempo and mood, styles of presentation and performance, and other techniques in the direction of plays.

**410-3 Children's Theater.**

**438-4 Contemporary Developments in the Theater.** Critical study of theory and practice in acting, directing, production, and architecture in the modern theater. The rise and development of the film, radio, and television as dramatic media.

# 9/ Faculty

## **Business Division**

### *Accounting*

*Associate Professors* Donald P. Bedel, Ph.D., C.P.A.; Richard J. Milles, M.S., C.P.A.; Fayez Nourallah, Ph.D.; Joe R. Small, M.B.A., C.P.A. (*Chairman*).  
*Assistant Professors* Kenneth G. Donnalley, M.A., C.P.A.; Burton J. Nissing, M.S., C.P.A.; Norbert V. Schmitt, M.S.  
*Instructor* John D. Mains, B.S., C.P.A.

### *Business Administration*

*Professors* Walter L. Blackledge, Ph.D.; James M. Gwin, Ph.D.; Kenneth H. Myers, Ph.D.; Ralston D. Scott, Ph.D.  
*Associate Professors* Gangadhar S. Kori, Ph.D.; Don A. Livingston, Ph.D.; David C. Luan, Ph.D.; John V. Meador, Ph.D.; Boulton B. Miller, Ph.D.; Stanley Sokolik, Ph.D. (*Chairman*); Clarence E. Vincent, D.B.A.  
*Assistant Professors* Warren A. DeBord, M.B.A.; Robert W. Eckles, M.B.A.; Paul Tarpey, M.S.  
*Instructor* Roger E. Potter, M.B.A.  
*Lecturers* Daniel B. Bosse, M.B.A.; Arnold G. Franke, M.S.; John Ingwersen, M.B.A.; Richard N. McKinney, M.A.; Don Rogier, M.S.

### *Business Education*

*Professors* Mary M. Brady, Ed.D. (*Chairman*); Homer L. Cox, Ed.D.; Wilmer O. Maedke, Ph.D.  
*Associate Professor* Gene L. Houser, Ed.D.  
*Assistant Professor* Elise D. Palmer, Ed.D.  
*Instructor* Jack Coffey, M.A.

### *Economics*

*Professors* Leo Cohen, Ph.D.; Louis S. Drake, Ph.D. (*Chairman*); John J. Glynn, Ph.D.  
*Associate Professors* Charles G. Drake, Ph.D.; Rasool M. Hashimi, Ph.D.; Don A. Livingston, Ph.D.; Ann S. Schwier, Ph.D.; Joseph M. Thorson, Ph.D.  
*Instructor* Hollis F. Price, B.A.

## **Education Division**

### *Counselor Education*

*Professors* Howard V. Davis, Ed.D.; Cameron W. Meredith, Ph.D.; Manford Sonstegard, Ph.D.; Daniel W. Soper, Ph.D.  
*Associate Professors* Thomas W. Hansmeier, Ed.D.; John J. McBride, Ed.D. (*Chairman*); Fay H. Starr, Ph.D.; Raymond E. Troyer, Ph.D.  
*Assistant Professors* Paul E. Kunkel, Ph.D.; Mary Jane Loper, M.S.; James J. Pancrazio, Ed.D.; Dean E. Rochester, Ed.D.  
*Instructors* William D. Burcky, M.A.; Philip L. Eckert, M.S.; Thomas D. Evans, M.S.; David R. Van Horn, M.S.

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*Visiting Professor* Helen Ederle, M.A.

*Educational Administration and Services*

*Professors* George C. Ackerlund, Ph.D.; Robert G. Andree, Ed.D.; H. Bruce Brubaker, Ed.D.; John B. Hawley, Ph.D.; Leonard B. Wheat, Ph.D.  
*Associate Professors* Merrill Harmin, Ph.D.; George T. Wilkins, M.A.  
*Assistant Professor* Eldon H. Madison, Ph.D. (*Chairman*)  
*Instructor* Deanne Holzberlein, M.L.S.  
*Lecturer* Elmer H. Wagner, Ed.Sp.

*Health, Recreation, and Physical Education*

*Associate Professor* Zadia C. Herrold, P.E.D. (*Chairman*)  
*Assistant Professors* Rosemarie Archangel, M.A.; Robert M. Guelker, M.S.; Walter C. Klein, H.S.D.; Norman E. Showers, Ed.D.  
*Instructors* Myrna L. Martin, M.S.; Lawrence N. Moehn, M.S.  
*Lecturer* Sara Carpenter, B.S.

*Psychology and Psychological Services*

*Professor* Alfred E. Kuenzli, Ed.D.  
*Associate Professors* Erwin H. Brinkmann, Ph.D. (*Chairman*); Eva D. Ferguson, Ph.D.; Virginia N. Harris, Ph.D.; John N. McCall, Ph.D.; Joseph R. Russo, Ed.D.; Kathryn K. Skinner, Ph.D.; Lawrence E. Taliana, Ph.D.; Richard P. Walsh, Ph.D.  
*Assistant Professors* Robert A. Daugherty, Ph.D.; Robert McLaughlin, Ph.D.; Robert O. Engbretson, Ph.D.; Bernard J. Hartman, Ph.D.; Frank B. McMahon, Jr., Ph.D.

*Special Education and Rehabilitation*

*Professor* Mark M. Tucker, Ed.D.  
*Associate Professors* Orval Gust Johnson, Ph.D.; Charles V. Matthews, M.A.  
*Assistant Professors* Virginia F. Shaffer, Ed.D.; Brockman Schumacher, M.S. in Ed.  
*Instructor* Saville Sax, M.A.

*Teacher Education and Curriculum*

*Professors* Francis T. Villemain, Ed.D. (*Chairman*); David E. Bear, Ed.D.; Ralph W. Ruffner, Ed.D.; Herbert F. A. Smith, Ph.D.; H. Dene Southwood, Ed.D.; G. K. Dale Wantling, Ph.D.  
*Associate Professors* Gordon C. Bliss, Ed.D.; Henry T. Boss, Ed.D.; Regan Carpenter, Ed.D.; George H. Goodwin, Ed.D.; S. Joseph Gore, Ph.D.; Ruth W. Richardson, Ed.D.; John H. Schnabel, Ed.D.; Myllan Smyers, Ed.D.; Robert H. Steinkellner, Ed.D.  
*Assistant Professors* Warren L. Brown, Ed.D.; James M. Comer, Ed.D.; Alfred D. Curry, Ph.D.; Donald Darnell, Ed.D.; Olin L. Hileman, Ed.D.; Arthur E. Jordan, Ed.D.; Donald C. Madson, Ed.D.; Roy S. Steinbrook, Ed.D.; Richard Swerdlin, Ed.D.; Leslie J. Wehling, Ed.D.  
*Instructors* Robert M. Bruker, M.Ed.; Betty Jo Kelley, M.S.; Dartha F. Starr, M.S.  
*Lecturer* David Hofmann, M.S.

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*Visiting Professor* Charles A. Lee, Ed.D.

*Fine Arts Division**Art and Design*

*Professor* Harry H. Hilberry, Ph.D. (*Chairman*)  
*Associate Professors* William F. Freund, M.S.; David C. Huntley, M.A.; Catherine E. Milovich, M.A.; John A. Richardson, Ed.D.  
*Assistant Professors* Nancy B. Altvater, Ed.D.; Evelyn T. Buddemeyer, B.S. in Ed.; John Cannon, M.F.A.; Lawrence Marcell, M.A.; Gene Trotter, B.S.



**Instructors** John D. Randall, B.S.; Michael J. Smith, M.A.  
**Lecturer** Walter Kemper, M.F.A.

### Music

**Professors** Lloyd G. Blakely, Mus.A.D. (*Chairman*); Warren Joseph, Ph.D.; John D. Kendall, M.A.; Ruth Slenczynska; Edwin B. Warren, Ph.D.  
**Associate Professors** Leslie Breidenthal, D.M.A.; Assen D. Kresteff, Ph.D.; Willis A. Stevens, D.M.A.; Dorothy E. Tulloss, Mus.A.D.  
**Assistant Professors** Clinton D. Fjerstad, M.M.; George K. Mellott, Ph.D.; Herbert H. Oberlag, M.M.; Richard K. Perry, M.Mus.; Leonard W. Van-Camp, Mus.A.D.  
**Instructors** Clayton W. Henderson, Jr., M.F.A.; Joseph E. Pival, M.M.

### Speech and Theater

**Professors** Andrew J. Kochman, Ph.D.; Keith R. St. Onge, Ph.D.; Hollis L. White, Ph.D. (*Chairman*)  
**Associate Professors** Robert B. Hawkins, Ph.D.; Lynn F. Kluth, Ph.D.; James L. Robinson, M.A.; William W. Vilhauer, Ph.D.  
**Assistant Professors** Stephen M. Archer, Ph.D.; Mary Belle Smith, M.A.  
**Lecturer** Ann Lee Carey, M.S.

## Humanities Division

### English Language and Literature

**Research Professor** John F. McDermott, M.A.  
**Professors** James C. Austin, Ph.D.; James M. Brown, Ph.D.; Robert W. Duncan, Ph.D.; William T. Going, Ed.D.; Nicholas Joost, Ph.D.; Marion A. Taylor, Ph.D.; Gordon R. Wood, Ph.D.  
**Associate Professors** John I. Ades, Ph.D. (*Chairman*); Dale S. Bailey, Ph.D.; Stella P. Revard, Ph.D.; William C. Slattery, Ph.D.; W. Bryce Van Syoc, Ph.D.; Jules Zanger, Ph.D.  
**Assistant Professors** Herman A. Dreifke, M.A.; A. Edwin Graham, Ph.D.; Edmund C. Hasse, M.A.; Daniel F. Havens, Ph.D.; Robert C. Stanley, M.S.; Gladys R. Steinman, M.A.; Leslie M. Thompson, Ph.D.  
**Instructors** Michael C. Flachmann, M.A.; James M. Funkhouser, M.A.; Linda K. Funkhouser, M.A.; Sandra J. Hollander, M.A.; Barbara Lawrence, B.A.; Garry N. Murphy, M.A.; Barbara Q. Schmidt, A.M.; P. Eugene Violette, A.B.

### Foreign Languages and Literature

**Professors** Paul F. Guenther, Ph.D.; Alfred G. Pellegrino, Ph.D. (*Chairman*); Raymond J. Spahn, Ph.D.  
**Assistant Professors** Helen D. Goode, Ph.D.; Dan L. Romani, M.A.; Josef E. Ryberb Jr., Ph.D.  
**Instructors** James C. Callanan, B.S.; Martha E. Heard, M.A.; Gertrude Marti, M.A.

### Philosophical Studies

**Professor** Gerald J. T. Runkle, Ph.D.  
**Associate Professors** William J. Emblom, Ph.D.; George W. Linden, Ph.D. (*Chairman*); Norman D. Livergood, Ph.D.  
**Assistant Professors** Charles A. Corr, Ph.D.; Ronald J. Glossop, Ph.D.; Robert Murdoch, M.A.; David F. T. Rodier, Ph.D.  
**Instructor** Fritz Marti, Ph.D.

## Science and Technology Division

### Applied Science

**Professors** Julius Brown, D.Sc.; Leonard C. Jones, Ph.D. (*Chairman*).  
**Associate Professors** Myron C. Bishop, M.A.; Arthur O. Garder, Ph.D.; Orville

Goering, Ph.D.; Richard E. Hughs, Ph.D.; Robert B. Rutledge, III, Ph.D.  
*Lecturer* Clifford H. Fore, B.Ed.

### *Biological Sciences and Technology*

*Associate Professors* Ralph W. Axtell, Ph.D. (*Chairman*); Harold E. Broadbooks, Ph.D.; Marion L. Kumler, Ph.D.; Donal G. Myer, Ph.D.  
*Assistant Professors* Justin N. Frost, Ph.D.; Richard C. Keating, Ph.D.; Nancy R. Parker, Ph.D.; Richard B. Parker, Ph.D.; Kermit O. Ratzlaff, Ph.D.; Jamie E. Thomerson, Ph.D.

### *Chemistry*

*Professors* Robert W. MacVicar, Ph.D.; Chester H. Shiflett, Ph.D.  
*Associate Professors* Marinus P. Bardolph, Ph.D.; Ferdinand H. Firsching, Ph.D.; Emil F. Jason, Ph.D.; Irwin H. Parrill, Ph.D.; William J. Probst, Ph.D.; David G. Rands, Ph.D.; Edmund White, Ph.D.  
*Assistant Professor* Ralph L. Bain, Ph.D.  
*Lecturers* Carl R. Phillips, Ph.D.; Robert D. Stallard, M.S.

### *Mathematical Studies*

*Professors* Kermit G. Clemans, Ph.D.; Andrew O. Lindstrum, Jr., Ph.D.; Robert N. Pendergrass, Ph.D. (*Chairman*); Eric A. Sturley, D.Ed.  
*Associate Professors* William C. Bennewitz, Ph.D.; Arthur O. Garder, Ph.D.; Orville Goering, Ph.D.; Deborah T. Haimo, Ph.D.; Richard E. Hughs, Ph.D.; Clellie C. Oursler, Ph.D.; Robert B. Rutledge, Ph.D.  
*Assistant Professors* Florence A. Fanning, M.A.; Ray C. Gwillim, M.S.; Jimmie Ray Hattemer, Ph.D.; Lyman S. Holden, Ph.D.; George V. Poynor, Ph.D.  
*Instructor* Paul H. Phillips, M.S.

### *Physics*

*Professors* Mohamed A. Hakeem, Ph.D.; Laurence R. McAneny, Ph.D.; William C. Shaw, Ph.D.  
*Associate Professors* Richard R. Boedeker, Ph.D.; Charles M. Rockman, Ph.D.; Lionel K. Walford, Ph.D.  
*Assistant Professor* Steven G. Sanders, Ph.D. (*Chairman*).  
*Instructors* David R. Slotboom, M.S.; Frederick W. Zurheide, M.S.

## **Social Sciences Division**

### *Behavioral Sciences*

*Professors* Paul Campisi, Ph.D. (*Chairman*); Orvis F. Collins, Ph.D.; Hyman H. Frankel, Ph.D.; Elliott Rudwick, Ph.D.; Donald Taylor, Ph.D.; Fred Voget, Ph.D.  
*Associate Professors* Robert B. Campbell, Ph.D.; June M. Collins, Ph.D.; Lynn Irvine, M.A.; Douglas More, Ph.D.; Gunter Remmling, Ph.D.; Ernest Schusky, Ph.D.; Bruce Thomas, Ph.D.  
*Instructors* Charles E. Grubb, A.M.; James R. Hayes, B.S.; Helen Teer, M.S.W.  
*Lecturer* Jane Altes, M.A.

### *Earth Sciences*

*Professors* James E. Collier, Ph.D.; Melvin E. Kazeck, Ed.D. (*Chairman*).  
*Associate Professors* William B. Baker, Ph.D.; Harry B. Kircher, Ph.D.; Carl Lossau, Ph.D.  
*Assistant Professors* Dorothy J. Gore, Ph.D.; Norman C. Johnsen, M.A.; Robert L. Koepke, Ph.D.  
*Instructors* Donald W. Clements, M.A.; Richard E. Guffy, M.S.; Loran D. Marlow, M.A.; Ronald E. Yarbrough, M.S.

### *Government and Public Affairs*

*Professors* Kurt Glaser, Ph.D.; William Goodman, Ph.D.; Daniel S. McHargue, Ph.D.; Seymour Z. Mann, Ph.D.  
*Associate Professors* John W. Ellsworth, Ph.D. (*Chairman*); James R. Kerr, Ph.D.; S. D. Lovell, Ph.D.; George R. Mace, Ph.D.  
*Assistant Professors* Georg Maier, Ph.D.; Philip J. Meranto, D.S.S.; Arthur A. Stahnke, Ph.D.  
*Instructor* William R. Feeney, M.A.

### *Historical Studies*

*Professors* Patrick W. Riddleberger, Ph.D.; Herbert H. Rosenthal, Ph.D.  
*Associate Professors* Michael Astour, Ph.D.; Robert F. Erickson, Ph.D. (*Chairman*); John G. Gallaher, Ph.D.; Stanley B. Kimball, Ph.D.; Allan J. McCurry, Ph.D.  
*Assistant Professors* Nedra Reames Branz, M.A.; James M. Haas, Ph.D.; Ray Huang, Ph.D.; Richard Millett, Ph.D.; Samuel C. Pearson, Jr., Ph.D.; Ronald A. Steckling, Ph.D.; Stuart L. Weiss, Ph.D.  
*Instructors* John Martin, A.M.; Richard J. Wurtz, B.A.

### **Department of Nursing**

*Professor* Harriet Smith Reeves, R.N., Ed.D.  
*Associate Professors* Mable Grumley Burton, R.N., M.P.H.; Maxine J. Chambers, R.N., M.P.H.  
*Assistant Professors* Barbara J. Jenkins, R.N., M.S.; Margaret I. Lesko, R.N., M.S.; Mary Ann Pollo, R.N., M.S.N.; Jessie M. Wilson, R.N., M.S.N.; Bernice R. Zich, R.N., Ed.M.

### **Air Force ROTC**

*Assistant Professors* Major Murray J. Hancock, Jr.; Major Joseph L. Horvath.





# Index

## A

Academic load, 7  
Accounting: description, 40; course descriptions, 82-83; faculty, 129  
Adult education, 30  
Advanced Placement Program, 16  
Advisement: academic, 4-5  
Admissions, Office of, 4  
Admission requirements: freshmen, 3; transfer students, 4; foreign students, 4; former students, 4  
Aerospace Studies: description, 24-26; Air Force ROTC awards, 26; course descriptions, 83  
Alton Center: location of, 1; size of, 1-2; facilities, 2; libraries, 2  
American Studies: requirements, 33; course descriptions, 83  
American College Testing Program, 15, 70  
Anthropology: description and requirements, 34; course descriptions, 83-84  
Applied Science: description and requirements, 34-35; course descriptions, 84; faculty, 131-132  
Areas of concentration: explanation of abbreviations used, 53  
Art: description and requirements, 35-36; course descriptions, 84-85; faculty, 130-131  
Associate degrees: listing of, 65; granting unit, 65  
Associate in Art degree, 65  
Associate in Business degree, 65  
Associate in Technology degree, 65

## B

Bachelor of Arts degree, 65  
Bachelor of Music degree, 65  
Bachelor of Music Education degree, 65  
Bachelor of Science degree, 65  
Bachelor's degrees, 11, 33, 65-66  
Biology: requirements, 36-37; course descriptions, 85-89; faculty, 132  
Broad teaching fields, 59

Bursar, 6, 74  
Business Administration: description and requirements, 37-42; faculty, 129  
Business Communications: course descriptions, 87  
Business Division: description, 19; general philosophy, 19-20; faculty, 129  
Business Education: description and requirements, 42-43; course descriptions, 87-89; faculty, 129

## C

Carbondale Campus, 1, 23, 26, 30, 67, 70, 71, 73, 74  
Center for the Study of Crime, Delinquency, and Corrections, 30  
Certificates of registration: description and use of, 74  
Certification for teaching: application for, 21; requirements for, 50, 58-59, 61, 62, 66  
Chemistry: description and requirements, 44; course descriptions, 89-90; faculty, 132  
Class standing, 7  
Commencement, 10, 65  
Communications Building, 1  
Comparative Literature: description, 44; course descriptions, 90-91  
Constitution examinations: state, 58, 66; national, 58, 66; alternatives to taking, 58  
Cooperative Clinical Services, 73  
Correspondence courses: requirements for, 10  
Counseling and testing, 69-70  
Counselor Education: course descriptions, 91; faculty, 129  
Course descriptions: explanation of, 77-78; listing of, 78-128  
Credit: transfer, 4; unit of, 7

## D

Dean of Students, Office of, 69, 71  
Degrees: listing of, 65-67; associate

degrees, 65; bachelor's degrees, 65-66; preprofessional programs, 66-67; advanced degrees, 67

## E

East St. Louis Center: location of, 2; facilities, 2; experimental college project, 2; libraries, 2; nursing program, 23  
 Economics: description and requirements, 44-46; course descriptions, 91-92; faculty, 129  
 Education Division: description, 20-21; faculty, 129-130  
 Educational Conference Program, 26-27  
 Educational Administration: course descriptions, 92-93; faculty, 130  
 Edwardsville Campus: location, 1; size of, 1; construction of, 1; Alton Center, 1-2; East St. Louis Center, 2; libraries, 2; mentioned 30, 33, 71  
 Elementary Education: description and requirements, 46-47; course descriptions, 93-94  
 Engineering (preprofessional): description and requirements, 47; course descriptions, 94-95  
 English: requirements, 47-48; course descriptions, 95-97; faculty, 131  
 Extension courses: requirements for, 10  
 Extension Class Program, 26  
 Examination, physical: prior to registration, 5

## F

Fields of study, 33  
 Finance: course descriptions, 97-98  
 Financial assistance, 72  
 Fees, 5-6  
 Fine Arts Division: description, 21; faculty, 130-131  
 First teaching fields, 59  
 Foreign Languages: requirements, 48; course descriptions, 98-101; faculty, 131  
 French: course descriptions, 98-99

## G

General Business Administration: description, 40-41; course descriptions, 101

General Education Development Test, 3, 10  
 General Foreign Language: course descriptions, 98  
 General Studies Area A—Man's Physical Environment and Biological Inheritance: requirements, 12-17; course descriptions, 78  
 General Studies Area B—Man's Social Inheritance and Social Responsibilities: requirements, 12-17; course descriptions, 79-80  
 General Studies Area C—Man's Insights and Appreciations: requirements, 12-17; course descriptions, 80-81  
 General Studies Area D—Organization and Communication of Ideas: requirements, 12-17; course descriptions, 81-82  
 General Studies Area E—Health and Physical Development: requirements, 12-17; course descriptions, 82  
 General Studies Division: description, 19  
 General Studies Program, 3, 4, 11-17, 33-34, 38, 39  
 General Studies Program Flexibility: advanced standing, 15; proficiency examination, 15; substitution, 15; third-level waiver, 15-16; College Entrance Examination Board, 16  
 General Studies requirements: area, 12; level, 12; hour, 12; summary of, 12-14; specific, 16; changes in, 17  
 Geography: description and requirements, 48-50; course descriptions, 101-103  
 German: course descriptions, 99  
 Government: requirements, 50; course descriptions, 103-105; faculty, 133  
 Grade-point average, 8, 9, 10, 65  
 Grading system: withdrawal from course, 8; incomplete grade, 8; deferred grade, 8; audit, 8  
 Graduate Record Examination, 5  
 Graduate School, 28, 67  
 Graduation, 10, 65

## H

Health Education: course descriptions, 105; faculty, 130  
 Health, Recreation, and Physical



Education: description and requirements, 50-51; faculty, 130  
 Health Services, 72-73  
 History: requirements, 51-52; course descriptions, 105-107; faculty, 133  
 Honors Day, 9-10  
 Honors Program, 10  
 Housing: basic policy, 70; Carbon-dale Campus, 70-71; Edwards-ville Campus, 71; off-campus, 71  
 Humanities: course descriptions, 107  
 Humanities Division: description, 21-22; faculty, 131

## I

Identification card: description and use of, 74  
 Instructional Materials: description, 52; course descriptions, 107-108  
 International Student Services, 73  
 Italian: course descriptions, 100

## J

Journalism: description, 52; course descriptions, 108

## L

Labor Institute, 30-31  
 Libraries: collection, 2; growth of, 2; housing of, 2; support of programs, 2; book rental, 74  
 Lovejoy Library, 1, 2

## M

Management Operating Systems: course descriptions, 108-109  
 Management Systems: description, 41  
 Marketing: description, 41; course descriptions, 109  
 Mathematics: requirements, 52-53; course descriptions, 109-112; faculty, 132  
 Military experience: credit for, 10  
 Music: description and requirements, 53-54; course descriptions, 112-114; faculty, 131

## N

Nursing, Department of: description, 23-24; description and re-

quirements, 54-55; course descriptions, 114-115; faculty, 133

## P

Peck Classroom Building, 1  
 Personnel and Industrial Relations: description, 42; course descriptions, 115  
 Philosophy: requirements, 55; course descriptions, 115-116  
 Physical Education: course descriptions, 116-117; faculty, 130  
 Physical examination: prior to registration, 5  
 Physics: requirements, 55-56; course descriptions, 117-118; faculty, 132  
 Placement Services, 73  
 Production: description, 42; course descriptions, 118-119  
 Professional Writing: requirements, 56  
 Proficiency tests, (PASS) 10  
 Program for Acceleration of Superior Students (PASS), 10  
 Psychology: description and requirements, 56-57; course descriptions, 119-121; faculty, 130  
 Public Administration and Planning: description and requirements, 57-58

## Q

Quantitative Methods: description, 41-42; course descriptions, 121

## R

Radio-Television: course descriptions, 121  
 Registration, 5  
 Registrar, Office of, 5, 6, 9, 65, 66  
 Rehabilitation: course descriptions, 122; faculty, 130  
 Residence regulations, 74-75  
 Russian: course descriptions, 100

## S

Scholastic standards: warning, 9; probation, 9; suspension, 9  
 Science Laboratory Building, 1  
 Science and Technology: course descriptions, 122  
 Science and Technology Division: description, 22; faculty, 131-132  
 Second teaching fields, 59

Secondary Education: description and requirements, 58–59; course descriptions, 122  
 Selective Service: requirements for student load, 7  
 Small Business Institute, 31  
 Social Sciences Division: description, 22; faculty, 132–133  
 Social Welfare: requirements, 60; course descriptions, 122–123  
 Sociology: requirements, 59–60; course descriptions, 123–125  
 Sophomore Testing Program, 5  
 Southern Illinois University: establishment of, 1; accreditation, 1; total size, 1; designation of campuses, 1  
 Spanish: course descriptions, 100–101  
 Special Education: description and requirements, 60–61; course descriptions, 125–126; faculty, 130  
 Special programs for credit, 10  
 Speech: description and requirements, 61–62; course descriptions, 126–127; faculty, 131  
 Speech Pathology and Audiology: requirements, 62; course descriptions, 127  
 State Superintendent of Public Instruction, 21  
 Student Activities, 71  
 Student Affairs, Office of, 4, 5, 24, 69  
 Student Guidebook, 72  
 Student Services, 69  
 Student Teaching: applications for, 58, 62–63; cooperating school, 62–63; graduation requirements, 62; hour requirements, 63; grade-point requirements, 63; conferences, 63; physical examinations for, 63; residence requirements, 63  
 Student work, 72  
 Subject-Matter Areas, 77

## T

Teacher Certification Programs, 21  
 Teaching fields: preparation for, 58–59; listing of, 59; hour requirements, 59  
 Technical and Adult Education, Division of: description, 29–30; degrees, 65  
 Theater: requirements, 64; course descriptions, 127–128; faculty, 131

Transfer students, 11  
 Tuition, 5

## U

University Center, 1, 74  
 University Extension Services: description, 26–29; class meetings, 27; tuition and fees, 27; registration, 27; auditing, 27; textbooks, 27; library facilities, 28; credit applicable to degrees, 28; course numbering system, 28; scheduling of classes, 28; educational conference program, 28–29; costs, 29  
 University Health Service, 5, 69  
 University Store, 65  
 University, history of, 1

## V

Veterans, 10  
 Vocational-Technical Institute, 29–30



### *SOUTHERN ILLINOIS UNIVERSITY FOUNDATION*

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# Southern Illinois University *Bulletin*

*Schedule of Classes, Winter Quarter, 1968*  
*Carbondale Campus*







# Schedule of Classes

*Winter, 1968*

*Carbondale Campus*

SOUTHERN ILLINOIS UNIVERSITY BULLETIN  
Volume 9                      Number 12                      October, 1967  
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published semi-monthly.

## Registration Calendar

### *Winter, 1968*

**October 4–November 21, and November 27–December 8.** Advance registration period for all undergraduate students. New students should refer to the Advisement and Registration Procedure on page 1 for further procedural information. *All continuing undergraduate students are expected to be registered by December 8.*

**October 4–November 21, November 27–December 8, and January 2–8.** Registration period for graduate students.

**December 13.** Undergraduate students will have their advance registrations cancelled if fees are not paid at the Bursar's Office by 4:00 P.M. on this date unless they have received approval for deferred payment.

**January 2.** Winter quarter begins. Last day of regular registration period for undergraduate students. Only new and re-entering students will be advised and registered. *All undergraduate students are expected to have completed registration by this date.* Any exceptions will involve late registration fee charges. Night classes (5:45 P.M. or later) begin.

**January 3 & 4.** Day classes begin on January 3. Program change processing only.

**January 5.** Late registration begins for undergraduate students. Late fee will be assessed. Program changes will be made by appointment.

**January 8.** Registration for the winter quarter ends for both undergraduate and graduate students. This also includes the registration into new courses or the changing of sections through the program change process.

**January 15.** Last day to officially withdraw from school to be eligible for a refund of fees. Deadline for payment of fees by students whose fees were deferred. Graduate students will be cancelled if fees are not paid by 4:00 P.M.

**January 29.** Last day for undergraduates to officially withdraw from a course without receiving a letter grade. Graduate students officially dropping a course after this date need not be given an evaluative letter grade. Last day to change from credit to audit or vice versa for all students.

**February 28.** Last day for making a program change or withdrawing from school except under exceptional conditions.

## Registration Calendar

### *Spring, 1968*

**January 16–March 8.** Advance registration period for all undergraduate students. New students should refer to the Advisement and Registration procedure on page 1 for further procedural information. *All continuing undergraduate students are expected to be registered by March 8.*

**January 16–March 8 and March 25–30.** Registration period for graduate students.

**March 13.** Undergraduate students will have their advance registrations cancelled if fees are not paid at the Bursar's Office by 4:00 P.M. on this date unless they have received approval for deferred payment.

**March 25.** Spring quarter begins. Last day of regular registration period for undergraduate students. Only new and re-entering students will be advised and registered. *All undergraduate students are expected to have completed registration by this date.* Any exceptions will involve late registration fee charges. Night classes (5:45 P.M. or later) begin.

**March 26 & 27.** Day classes begin on March 26. Program change processing only.

**March 28.** Late registration begins for undergraduate students. Late fee will be assessed. Program changes will be made by appointment.

**March 30.** Registration for the spring quarter ends for both graduate and undergraduate students. This also includes the registration into new courses or the changing of sections through the program change process.

**April 5.** Deadline for payment of fees by students whose fees were deferred. Graduate students will be cancelled if fees are not paid by 4:00 P.M.

**April 6.** Last day to officially withdraw from school to be eligible for a refund of fees.

**April 20.** Last day for undergraduates to officially withdraw from a course without receiving a letter grade. Graduate students officially dropping a course after this date need not be given an evaluative letter grade. Last day to change from credit to audit or vice versa for all students.

**May 22.** Last day for making a program change or withdrawing from school except under exceptional conditions.

# University Calendar

# Contents

## *Fall Quarter, 1967*

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Vacation	Tuesday, 10 P.M.–Monday, 8:00 A.M., November 21–27
Final Examinations	Monday–Saturday, December 11–16
Quarter Ends	Saturday, December 16

## *Winter Quarter, 1968*

Quarter Begins	Tuesday, January 2
Final Examinations	Monday–Saturday, March 11–16
Quarter Ends	Saturday, March 16

## *Spring Quarter, 1968*

Quarter Begins	Monday, March 25
Memorial Day Holiday	Thursday, May 30
Final Examinations	Monday–Saturday, June 3–8
Quarter Ends	Saturday, June 8
Commencement (Carbondale)	Friday, June 7
Commencement (Edwardsville)	Saturday, June 8

## *Summer Quarter, 1968*

Quarter Begins	Monday, June 17
Independence Day Holiday	Thursday, July 4
Final Examinations	Monday–Friday August 16–30
Commencement (Carbondale)	Friday, August 30
Commencement (Edwardsville)	Saturday, August 31

Registration Calendars .....	ii
University Calendar .....	iii
Calendar of Events .....	iv
GENERAL INFORMATION .....	1
Admission .....	1
Registration and Advisement .....	1
New Students .....	2
Re-entering Students .....	2
Current Students, Carbondale Campus .....	2
Current Students, Edwardsville Campus .....	2
Payment of Fees .....	2
Fees for a Regular Quarter .....	2
Registration for Night and/or Saturday Classes .....	3
Late Registration .....	3
Auditing of Courses .....	3
Program Changes .....	3
Dropping a Course .....	3
Changing Fee Status .....	3
Withdrawal from School .....	3
Cancellation of Registration .....	3
Personal Data Changes .....	3
SCHEDULE OF CLASSES .....	4
Listing of Courses .....	4
Course Numbers and Hours .....	4
Prerequisite .....	4
Section Number, Time, and Days .....	4
Building and Room Number .....	4
Explanation of Entries .....	4
Schedule of General Studies Courses .....	5
Schedule of Departmental Courses .....	19

## This Bulletin

contains the schedule of classes to be offered by the Carbondale Campus for the winter quarter, 1968, at Carbondale, Southern Acres, and Little Grassy Lake. It also provides information relative to admission, advisement, registration, and fees. It supersedes the winter class schedule section of *Southern Illinois University Bulletin*, Volume 9, Number 6.



# Calendar of Events, 1967-1968

This calendar contains all of the dates and events within the official University Calendar. It also lists certain test dates and a few other all-university events which are related to the academic program.

## September

- 17, Sunday. New Student Days begin.
- 19, Tuesday. New Student Days end.
- 20, Wednesday. Fall quarter begins. Evening classes (5:45 P.M. or later) begin.
- 21, Thursday. Day classes begin.
- 22, Friday. Registration closes for the Dental Aptitude Test to be held October 7.

## October

- 6, Friday. Registration closes for the Medical College Admission Test to be held October 21.
- 7, Saturday. \* Dental Aptitude Test—8:00 A.M. to 5:00 P.M.
- 13, Friday. Registration closes for the Graduate Record Examination to be held October 28.
- 20, Friday. Registration closes for the Admission Test for graduate study in business to be held November 4, 1967.
- 21, Saturday. \* Medical College Admission Test—8:00 A.M. to 5:00 P.M.
- 21, Saturday. \* American College Testing Program—8:00 A.M. to 1:00 P.M.
- 27, Friday. Registration closes for the Law School Admission Test to be held November 11, 1967.
- 27, Friday. Registration closes for the MLA Foreign Language Proficiency Tests to be held November 18, 1967.
- 28, Saturday. \* Graduate Record Examination—8:00 A.M. to 5:00 P.M.
- 28, Saturday. Deadline for application for admission to Graduate School to be considered a degree candidate for Winter Quarter.
- 28, Saturday. Homecoming. Classes which meet on Saturday morning will meet; other Saturday classes are dismissed.

## November

- 4, Saturday. Admission Test for graduate study in business, 8:00 A.M.—1:00 P.M.
- 11, Saturday. Law School Admission Test, 8:00 A.M.—5:00 P.M.
- 11, Saturday. Foreign Language Examination—10:00 A.M. to 12 Noon, Wheeler Hall.
- 18, Saturday. MLA Foreign Language Proficiency Tests, 8:00 A.M.—4:00 P.M.
- 21, Tuesday. Thanksgiving Recess begins, 10:00 P.M.
- 27, Monday. Thanksgiving Recess ends, 8:00 A.M.

## December

- 9, Saturday. \* American College Testing Program—8:00 A.M. to 1:00 P.M.
- 11, Monday. Fall quarter final examination begin.
- 16, Saturday. Fall quarter final examinations end.

## January

- 2, Tuesday. New Student Day. Winter quarter begins. Evening classes (5:45 P.M. or later) begin.
- 3, Wednesday. Day classes begin.
- 5, Friday. Registration closes for the Graduate Record Examination to be held January 20.

- 19, Friday. Registration closes for the Admission Test for graduate study in business to be held February 3, 1968.
- 20, Saturday. \* Graduate Record Examination—8:00 A.M. to 5:00 P.M.
- 26, Friday. Registration closes for the Law School Admission Test to be held February 10, 1968.
- 27, Saturday. Deadline for application for admission to Graduate School to be considered as a degree candidate for Spring quarter.

## February

- 1, Thursday. Deadline for Graduate Fellowship application for the academic year 1967–1968.
- 3, Saturday. Admission Test for graduate study in business, 8:00 A.M.—1:00 P.M.
- 10, Saturday. Law School Admission Test, 8:00 A.M.—5:00 P.M.
- 10, Saturday. Foreign Language Examination—10:00 A.M. to 12 Noon, Wheeler Hall.
- 17, Saturday. \* American College Testing Program—8:00 A.M. to 1:00 P.M.

## March

- 8, Friday. Registration closes for the MLA Foreign Language Proficiency Tests to be held March 30, 1968.
- 11, Monday. Winter quarter final examinations begin.
- 16, Saturday. Winter quarter final examination end.
- 22, Friday. Registration closes for the Admission Test for graduate study in business to be held April 6, 1968.
- 22, Friday. Registration closes for the Law School Admission Test to be held April 6, 1968.
- 22, Friday. Registration closes for the National Teacher Examinations to be held April 6, 1968.
- 25, Monday. New Student Day. Spring quarter begins. Evening classes (5:45 P.M. or later) begin.
- 26, Tuesday. Day classes begin.
- 30, Saturday. Deadline for application for admission to Graduate School to be considered a degree candidate for Summer quarter.
- 30, Saturday. MLA Foreign Language Proficiency Tests, 8:00 A.M.—4:00 P.M.

## April

- 6, Saturday. Admission Test for graduate study in business, 8:00 A.M.—1:00 P.M.
- 6, Saturday. Law School Admission Test, 8:00 A.M.—5:00 P.M.
- 6, Saturday. National Teacher Examinations, 8:00 A.M.—5:00 P.M.
- 12, Friday. Registration closes for the Graduate Record Examination to be held April 27.
- 12, Friday. Registration closes for the Dental Aptitude Test to be held April 27.
- 26, Friday. Registration closes for the MLA Foreign Language Proficiency Tests to be held May 18, 1968.
- 27, Saturday. \* Graduate Record Examination—8:00 A.M. to 5:00 P.M.
- 27, Saturday. \* Dental Aptitude Test—8:00 A.M. to 5:00 P.M.

## May

- 4, Saturday. Deadline to file Application for June graduation.
- 11, Saturday. Foreign Language Examination. 10:00 A.M. to 12 Noon, Wheeler Hall.

11, Saturday. \* American College Testing Program—  
8:00 A.M. to 1:00 P.M.  
18, Saturday. MLA Foreign Language Proficiency Tests,  
8:00 A.M.—4:00 P.M.  
18, Saturday. Last day to submit theses and dissertations  
to the Graduate School for approval in order to be grad-  
uated in June.  
30, Thursday. Memorial Day Holiday.

### June

3, Monday. Spring Quarter final examinations begin.  
8, Saturday. Spring Quarter final examinations end.

\* Pre-registration is required. For details contact the  
Testing Center.

# General Information 1

This bulletin contains the schedule of classes for the winter  
quarter, 1968, for the Carbondale Campus. It also provides  
information relative to advisement and registration, fees,  
and allied information for the Carbondale Campus.

## ADMISSION

Inquiries concerning undergraduate admission to the Car-  
bondale Campus should be directed to the Admissions  
Office; those on the graduate level to the Graduate School.  
Deadlines for admission application can be found in the  
Calendar of Events on the preceding pages. Undergraduate  
admission applications should be completed at least thirty  
days in advance of the desired entrance date.

## REGISTRATION & ADVISEMENT

The Carbondale Campus uses an academic advisement  
system whereby each undergraduate academic unit has a  
chief academic adviser and a number of assistant advisers  
selected from the teaching faculty. Undergraduate students  
entering the University for the first time will receive selec-  
tive dates from the admission process from which they are  
to select the preferred date on which they will come to the  
campus to be advised and to advance register. This in-  
cludes both freshmen and transfer students. They are not  
to write for appointments nor are they to come to Carbond-  
dale expecting to register unless it is the date indicated  
for them to do so.

Graduate students will initiate advisement with their  
advisers, and will complete the registration process at the  
Graduate School, where all registration forms will be com-  
pleted and retained. Graduate students will not be required  
to go through the Sectioning Center. The sectioning proc-  
ess is handled at a later time, and the student receives  
a fee statement by mail. Cancellation of graduate student  
registrations for non-payment of fees occurs at the end of  
the second week of the quarter. Graduate students may  
register during the advance registration period or during  
the first week of the quarter. No late fee will be assessed  
during this period. Graduate students who need to make  
program changes must follow the same procedure as un-  
dergraduate students in that these must be personally proc-  
essed by the graduate students through the Sectioning  
Center.

After advisement the student may register for classes.  
The registration calendar begins on page ii. Ordinarily  
registration offices are open from 8:00 to 12:00 noon and  
1:00 to 5:00 P.M., Monday through Friday, and from 8:30  
to 12:00 noon on Saturday.

During the registration process the student goes  
through the Sectioning Center where the assignment is  
made to specific sections of the courses he is to take.

Mere attendance does not constitute registration in a  
class, nor will attendance in a class for which a student is  
not registered be a basis for asking that a program change  
be approved permitting registration in that class.



## NEW STUDENTS

Students entering the University for the first time are permitted to advance register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admission.

New undergraduate students, freshmen and transfer, will be expected to advance register on the same date that they come to the campus for advisement. Dates for students to do so will be selective ones in which the students are asked to come to the campus on specific dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted nor are they to come to the campus for advisement and registration without an appointment. Appointments for advisement and registration will be mailed from and are to be returned to the Registrar's Office.

New graduate students may register during the registration periods indicated on the registration calendars. Arrangements should be cleared with the Graduate School to do so to assure that the appropriate adviser will be available.

## RE-ENTERING STUDENTS

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to advance register during the periods outlined in the Registration Calendar. After completing readmission procedures (Admission Office for undergraduate students and Graduate School for graduate students) advisement appointments should be made at the advisement offices of the academic units into which the students are entering and clearance of the registrations should be completed on that same day at the Sectioning Center.

## CURRENT STUDENTS, CARBONDALE CAMPUS

Students currently registered in the University will be continued in their present curricula unless a change of college or major is made. A change of college or major is initiated with the student's adviser. Either change should be made at the time of advisement.

Undergraduate students currently registered in the University will schedule appointments with their adviser. Registrations should be processed through the Sectioning Center as soon after advisement as possible.

Graduate students in a degree program should make appointments with the departmental adviser for program advisement. Unclassified graduate students preparing for a degree program should contact the departmental adviser for pre-advisement. Unclassified graduate students in other categories may report directly to the Graduate School for registration procedure. Unclassified students who are planning to take qualifying courses must report those courses to the Graduate Admissions office *before* registering each quarter.

## CURRENT STUDENTS, EDWARDSVILLE CAMPUS

Undergraduate students attending the Edwardsville Campus who plan to attend the Carbondale Campus must initiate their registration process by presenting to the Admissions Office at Carbondale either an official transcript of their University record or a letter of good standing from the registrar at the Edwardsville Campus. The reason for reporting to the Admissions Office is to permit the necessary coding changes to be made so that pertinent information about their academic programs, etc., can be up-dated

to reflect the change of campus. Graduate students report first to the Graduate School.

## PAYMENT OF FEES

Undergraduate students receive their fee statements at the time of registration. During the advance registration period students are asked to delay paying their fees in person at the Bursar's Office until the day following registration. This is to permit necessary fee information to reach the Bursar by the time of fee payment. Students will find it easier to simply mail the fee statement along with the proper monetary amount to the Bursar's Office so as to arrive there by the deadline dates which are stated in the Registration Calendar located earlier in this Schedule. If students pay fees in person at the Bursar's Office they receive a Certificate of Registration at that time. When paying by mail they may pick up the Certificate at the Bursar's Office. Later, students will receive their printed schedule of classes at the time and place announced by the Registrar's Office. It is important that these forms be carried by the students at all times.

Undergraduate students registering at the start of a quarter must pay fees at the time of registration.

Undergraduate students advance registering may have their fees deferred provided the total amount of fees payable is \$35 or more. This is done through the Financial Assistance Office. Students attempting to do this via mail must do so several days prior to the fee deadline and must include their Fee Statement with the written request for deferment.

Graduate students receive their fee statements by mail and must clear their fees at the Bursar's office by 4:00 P.M. on the last day of the second week of the quarter. For the 1968 winter quarter this is January 15.

## FEES FOR A REGULAR QUARTER

The University reserves the right to change fees and to have the change go into effect whenever the proper authorities so determine. Beginning winter quarter, 1968, Illinois undergraduate students pay the following fees:

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois			
Resident .....	\$14.00	\$28.00	\$42.00
Tuition Fee—Out of State ..	(30.00)	(115.00)	(172.00)
Student Welfare and Recreation Building			
Trust Fund Fee .....	5.00	10.00	15.00
Book Rental Fee .....	3.00	6.00	8.00
Student Activity Fee .....	3.50	7.00	10.50
University Center Fee .....	5.00	5.00	5.00
Total—Illinois Resident .....	\$30.50	\$56.00	\$80.50
Total—Out of State			
Resident .....	(46.50)	(143.00)	(210.50)

Students who register for a course for "Audit" or for a non-credit course will be assessed fees according to the imputed hours of that course. "Imputed hours" is generally the number of hours the class meets per week.

Graduate students do not rent their textbooks and do not pay the book rental fee. They must purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status.



## REGISTERING FOR ONLY NIGHT AND/OR SATURDAY CLASSES

Students registering for only night and/or Saturday classes may advance register, during regular office hours, the same as other students. Registration offices are also open the first night of each quarter, and the first Saturday morning of each quarter for the convenience of these students.

## LATE REGISTRATION

A late registration fee will be charged continuing undergraduate students who do not advance register. New and re-entry undergraduate students will be charged this late fee after the first day of the quarter. Graduate students will be charged a late fee after the first week of the quarter.

## AUDITING OF COURSES

Students may register for courses in an "audit" status. They receive no letter grade and no credit for such courses. An auditor's registration must be marked accordingly. They pay the same fees as though they were registering for credit. They are expected to attend regularly and are to determine from the instructor the amount of work expected of them. If auditing students do not attend regularly, the instructor may determine that the students should not have the audited courses placed on their record cards maintained in the Registrar's Office. Students registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter. Such a change will require the student's academic dean's approval.

## PROGRAM CHANGES

Students are officially registered only for those courses appearing on their schedule of classes. Any change therefrom can be made only after fees are paid and must be made through an official program change, which includes the following steps:

1. Initiating the change.

Students report to their advisers for approval and Program Change form completion. Graduate students must also secure approval from the Graduate School. If the change involves only that of changing sections within the same course, this may be done at the Sectioning Center without the necessity of securing adviser approval.

2. Sectioning.

Students must take the program change form to the Sectioning Center after approval by the adviser. If the change involves a program change fee this must be paid at the Bursar's Office and then returned to the Sectioning Center for completion of the process.

Program changes which involve the adding of a new course to the schedule or the changing of sections must be done during the first week of a quarter.

## DROPPING A COURSE

A program change must be made in order to drop a course. A student may not drop merely by stopping attendance. The last date for dropping a course by an undergraduate student without receiving a letter grade is the last day of the fourth week of a quarter. Graduate stu-

dents may not necessarily receive a grade for dropping after the fourth week. (Refer to Registration Calendar.)

## CHANGING FEE STATUS

Students making program changes which result in their moving from one fee status to another will be assessed additional tuition and fees when appropriate. If the change is to reduce the academic load resulting in a lower tuition and fee status, students may apply for the appropriate tuition and fee refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendar beginning on page ii.

## WITHDRAWAL FROM SCHOOL

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who advance registers, including paying of fees, and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

## CANCELLATION OF REGISTRATION

An advance registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of Student Affairs.

## PERSONAL DATA CHANGES

At the time of registration students are asked to review a Biographic Data Sketch containing personal data. Certain items, if in error, may be corrected at that time. Other items which may require some type of verifying evidence, are changed by reporting to the offices listed below.

1. Local Address Change. Housing Office, Building A, Washington Square.
2. Name Changes, Marital Status Changes, Date of Birth Changes. Records section of the Registrar's Office. Verification is required.
3. Selective Service Data Changes or Information. Enrollment Center, Registrar's Office.
4. Legal Residence Changes (whether an Illinois or out-of-state resident). Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

# Schedule of Classes

2

## LISTING OF COURSES

Courses which students are to take to meet the General Studies requirements are listed in the front part of the Schedule of Classes. These courses are listed by the area which they satisfy and within the area by course number and section number.

Departments in which courses are being offered are listed in alphabetical order. Courses within each department are listed in order by course number and section number.

## COURSE NUMBERS AND HOURS

The column containing this information shows the number of the course first, followed by the number of hours of credit. Course numbers are three-digit numbers. In some cases the three digits may be followed by a letter which is also part of the course number.

The number appearing after the dash denotes the hours of credit for the course. In some cases there may be more than one number following the course number such as 599-2 to 5. This represents a variable-hour course in which the student decides the number of hours for which he is going to register in consultation with his adviser.

The course numbering system is as follows:

000-099 Course not properly in the following categories  
100-199 For freshmen  
200-299 For sophomores  
300-399 For juniors and seniors  
400-499 For seniors and graduate students  
500-600 For graduate students only

## PREREQUISITE

The prerequisite column lists requirements which must be satisfied before a student registers for the course. These prerequisites may be listed in various ways. Usually they are other courses in the same department, indicated by a course number. A prerequisite in another department is indicated by the department's code letters and the number.

The listing of prerequisites provides ready information for students. An effort has been made to have the listing complete, but this is not guaranteed. For the official listing of course descriptions and prerequisites, consult the undergraduate catalog or the graduate catalog.

## SECTION NUMBER, TIME, AND DAYS

The times given indicate the beginning and ending of each class period. Students registering for courses listed as "to

be arranged" may obtain times and days from instructor indicated or, if no instructor is listed, from the department chairman offering the course.

The letter *T* preceding a section number indicates that the section has been tentatively scheduled and will be opened for registration only if staff is available.

## BUILDING AND ROOM NUMBER

The following list of building abbreviations will help in the location of classrooms. Buildings are listed alphabetically according to the code used in the class schedule. Temporary buildings are indicated in the schedule by the letter *T* or *H* followed by a number.

CODE:	BUILDING NAME	CODE:	BUILDING NAME
A:	Allyn Building	Office:	Office of the department
Abbott:	Abbott Hall (T.P.)	P:	Parkinson Building
Ag:	Agriculture Building	Pierce:	Pierce Hall (T.P.)
Alg:	Altgeld Hall	PKP-S:	Park Place, South
Arena:	SIU Arena	Pool:	University Swimming Pool
Aud:	Shryock Auditorium	Pull:	Pulliam Hall
Bailey:	Bailey Hall (T.P.)		(University School)
BLD 56:	Physical Plant	PullII:	Pulliam Hall (Industrial Education Wing)
Bowling Alley (in		Stables:	Stables at Little Grassy Lake
University Center)		Stad:	McAndrew Stadium
Brown:	Brown Hall (T.P.)	T:	Temporary Building
Browne:	Browne Auditorium	Tech:	Technology
Cl:	General Classroom Building	Tennis:	Tennis Courts
Comm:	Communications Building	UCTR:	University Center
Felts:	Felts Hall (T.P.)	VTI:	Vocational-Technical Institute (Southern Acres)
Gym:	Gymnasium	Warren:	Warren Hall (T.P.)
H:	Temporary Building	Wh:	Wheeler Hall
HEC:	Home Economics Building	Wham:	Wham Education Building
L:	Lawson Hall		
Lake:	Lake on the Campus		
Lib:	Morris Library		
LG:	Little Grassy Lake		
LS:	Life Science Building		
M:	Old Main		

If a building contains more than one classroom, then the number of the room follows the building's code name. For example, "T32 111" means room 111 in building T32.

## EXPLANATION OF ENTRIES

The entry for each course is arranged as follows:

First Line: The course's identification number is followed by the number of quarter hours of credit and the descriptive title. A dotted line separates the title from the prerequisite, which appears at the right-hand end of the first line and sometimes continues to the second line.

Second Line: Special registration information, explanations, or any other remarks about the course appear on the second line. Sometimes the second line is not used.

Section-Number Lines: The first column lists section numbers for courses offered winter quarter. Following each section number are the time the class begins and the time it ends. The ending time for a class is indicated only when it exceeds the normal 50 minute period. The days on which the class meets, the place where it meets, and the instructor's last name complete the entry.

GENERAL STUDIES AREA A--MAN'S PHYSICAL ENVIRONMENT AND BIOLOGICAL INHERITANCE (GSA)

101a-4 Energy and Particles I--Physics

1	8:00	M WThF	L 171	Nickell
2	11:00	M WThF	L 161	Lefebvre
3	12:00	MTWTh	Browne	Hickey
4	2:00	MTWTh	Browne	Trummel
5	4:00	MTWTh	Browne	Nickell

101b-4 Introduction to Physical Science

1	10:00	M W FS	Browne
2	3:00	MTWTh	Browne
3	5:00	MT ThF	Browne
4	5:45-7:25 pm	M W	Browne
5	7:35-9:15 pm	M W	Browne
6	7:35-9:15 pm	T Th	Browne

101c-3 Introduction to Physical Science [GSA 101b]

1	8:00	T Th S	Browne
2	1:00	M W F	Browne
3	1:00	T Th	Browne
	12:00	F	Browne

Chem 101c-1 Optional Laboratory for GSA 101c

[101b and concurrent enrollment in GSA 101c]

1	10:00-12:50	T	P 213
2	10:00-12:50	T	P 213
3	6:00-8:50 pm	W	P 213
4	6:00-8:50 pm	Th	P 213
5	6:00-8:50 pm	Th	P 213

110a-4 Earth and Its Environment

1	10:00	M W	L 171	Jones
	10:00	M F	T 106	
	12:00-1:50	M	T 106	
2	10:00	M W	L 171	Jones
	10:00	F	Wham 206	
	4:00-5:50	M	T 106	
3	10:00	M W	L 171	Jones
	10:00	F	Wham 208	
	10:00	T	T 106	
4	10:00	M W	L 171	Jones
	4:00	F	T 106	
	2:00-3:50	T	T 106	
5	10:00	M W	L 171	Jones
	4:00	F	Ag 148	
	6:00-7:50 pm	T	T 106	
6	10:00	M W	L 171	Jones
	4:00	F	Ag 214	
	12:00-1:50	W	T 106	
7	10:00	M W	L 171	Jones
	5:00	F	T 106	
	4:00-5:50	W	T 106	
8	10:00	M W	L 171	Jones
	5:00	F	Ag 148	
	8:00-9:50	Th	T 106	
9	10:00	M W	L 171	Jones
	5:00	F	Ag 214	
	12:00-1:50	Th	T 106	
10	11:00	M W	L 171	Bertoni
	11:00	F	T 106	
	2:00-3:50	M	T 106	
11	11:00	M W	L 171	Bertoni
	11:00	F	TechA 308	
	8:00-9:50	T	T 106	
12	11:00	M W	L 171	Bertoni
	11:00	F	Wh 107	
	12:00-1:50	T	T 106	
13	11:00	M W	L 171	Bertoni
	4:00	F	Comm 122	
	4:00-5:50	T	T 106	
14	11:00	M W	L 171	Bertoni
	4:00	F	Ag 220	
	8:00-9:50	W	T 106	
15	11:00	M W	L 171	Bertoni
	4:00	F	Ag 224	
	2:00-3:50	W	T 106	
16	11:00	M W	L 171	Bertoni
	5:00	F	Ag 220	
	6:00-7:50 pm	W	T 106	
17	11:00	M W	L 171	Bertoni
	5:00	F	Ag 224	
	10:00-11:50	Th	T 106	

18 11:00 M W L 171 Bertoni  
5:00 F Comm 122

110b-4 Earth and Its Environment [110a]

1	1:00	MT Th	L 171	Harris & Jones
2	2:00	M	L 141	
	2:00	T Th	L 171	

Laboratory on Auto-Tutorial Basis

201a-4 Introductory Biology [First level of GSA]

1	8:00	M W F	LS 133
	10:00-11:50	M	H 27a
2	8:00	M W F	LS 133
	12:00-1:50	M	H 27a
3	8:00	M W F	LS 133
	4:00-5:50	M	H 27a
4	8:00	M W F	LS 133
	8:00-9:50	T	H 27a
5	8:00	M W F	LS 133
	10:00-11:50	W	H 27a
6	8:00	M W F	LS 133
	6:00-7:50 pm	W	H 27a
7	8:00	M W F	LS 133
	8:00-9:50	Th	H 27a
8	8:00	M W F	LS 133
	2:00-3:50	Th	H 27a
9	8:00	M W F	LS 133
	8:00-9:50	S	H 27a
10	8:00	M W F	LS 133
	10:00-11:50	S	H 27a
21	11:00	T Th S	LS 133
	8:00-9:50	M	H 27c
22	11:00	T Th S	LS 133
	10:00-11:50	M	H 27c
23	11:00	T Th S	LS 133
	4:00-5:50	M	H 27c
24	11:00	T Th S	LS 133
	8:00-9:50	W	H 27c
25	11:00	T Th S	LS 133
	10:00-11:50	W	H 27c
26	11:00	T Th S	LS 133
	6:00-7:50 pm	W	H 27c
27	11:00	T Th S	LS 133
	12:00-1:50	Th	H 27c
28	11:00	T Th S	LS 133
	12:00-1:50	F	H 27c
29	11:00	T Th S	LS 133
	10:00-11:50	F	H 27c
30	11:00	T Th S	LS 133
	8:00-9:50	S	H 27c
31	3:00	M W F	LS 133
	12:00-1:50	M	H 27c
32	3:00	M W F	LS 133
	6:00-7:50 pm	M	H 27c
33	3:00	M W F	LS 133
	8:00-9:50	T	H 27c
34	3:00	M W F	LS 133
	4:00-5:50	W	H 27a
35	3:00	M W F	LS 133
	4:00-5:50	W	H 27c
36	3:00	M W F	LS 133
	2:00-3:50	Th	H 27c
37	3:00	M W F	LS 133
	4:00-5:50	Th	H 27c
38	3:00	M W F	LS 133
	6:00-7:50 pm	Th	H 27c
39	3:00	M W F	LS 133
	8:00-9:50	F	H 27c
40	3:00	M W F	LS 133
	10:00-11:50	S	H 27c
41	6:00-7:25 pm	M W	LS 133
	10:00-11:50	T	H 27c
42	6:00-7:25 pm	M W	LS 133
	2:00-3:50	M	H 27c
43	6:00-7:25 pm	M W	LS 133
	2:00-3:50	M	H 27a
44	6:00-7:25 pm	M W	LS 133
	10:00-11:50	Th	H 27c
45	6:00-7:25 pm	M W	LS 133
	12:00-1:50	W	H 27c



46	6:00-7:25 pm	M W	LS 133
	2:00-3:50	W	H 27a
47	6:00-7:25 pm	M W	LS 133
	2:00-3:50	W	H 27c
48	6:00-7:25 pm	M W	LS 133
	8:00-9:50	Th	H 27c
49	6:00-7:25 pm	M W	LS 133
	6:00-7:50 pm	Th	H 27a
50	6:00-7:25 pm	M W	LS 133
	10:00-11:50	F	H 27a
201b-4	Introductory Biology [GSA 201a]		
1	8:00	T Th	LS 133
	10:00-11:50	M Th	H 26a
2	8:00	T Th	LS 133
	12:00-1:50	M Th	H 26a
3	8:00	T Th	LS 133
	2:00-3:50	M Th	H 26a
4	8:00	T Th	LS 133
	4:00-5:50	M Th	H 26a
5	8:00	T Th	LS 133
	10:00-11:50	T F	H 26a
6	8:00	T Th	LS 133
	12:00-1:50	T F	H 26a
7	8:00	T Th	LS 133
	2:00-3:50	T F	H 26a
8	8:00	T Th	LS 133
	6:00-7:50 pm	T Th	H 26a
9	8:00	T Th	LS 133
	8:00-9:50	W F	H 26a
10	8:00	T Th	LS 133
	10:00-11:50	W S	H 26a
11	10:00	T Th	LS 133
	8:00-9:50	M Th	H 26c
12	10:00	T Th	LS 133
	12:00-1:50	M Th	H 26c
13	10:00	T Th	LS 133
	2:00-3:50	M Th	H 26 c
14	10:00	T Th	LS 133
	4:00-5:50	M Th	H 26c
15	10:00	T Th	LS 133
	8:00-9:50	T F	H 26c
16	10:00	T Th	LS 133
	12:00-1:50	T F	H 26c
17	10:00	T Th	LS 133
	2:00-3:50	T F	H 26c
18	10:00	T Th	LS 133
	6:00-7:50 pm	T Th	H 26c
19	10:00	T Th	LS 133
	8:00-9:50	W S	H 26c
20	10:00	T Th	LS 133
	10:00-11:50	W F	H 26c
21	11:00	M W	LS 133
	8:00-9:50	M Th	LS 308
22	11:00	M W	LS 133
	8:00-9:50	M Th	LS 132
23	11:00	M W	LS 133
	2:00-3:50	M Th	LS 308
24	11:00	M W	LS 133
	4:00-5:50	M Th	LS 308
25	11:00	M W	LS 133
	8:00-9:50	T F	LS 308
26	11:00	M W	LS 133
	10:00-11:50	T F	LS 308
27	11:00	M W	LS 133
	2:00-3:50	T F	LS 308
28	11:00	M W	LS 133
	6:00-7:50 pm	T Th	LS 308
29	11:00	M W	LS 133
	8:00-9:50	W S	LS 308
30	11:00	M W	LS 133
	8:00-9:50	W F	LS 132
31	5:45-7:25 pm	T	LS 133
	10:00-11:50	M Th	H 26c
32	5:45-7:25 pm	T	LS 133
	10:00-11:50	M Th	LS 132
33	5:45-7:25 pm	T	LS 133
	12:00-1:50	M Th	LS 132
34	5:45-7:25 pm	T	LS 133
	2:00-3:50	M Th	LS 132

35	5:45-7:25 pm	T	LS 133
	4:00-5:50	M Th	LS 132
36	5:45-7:25 pm	T	LS 133
	6:00-7:50 pm	M W	LS 132
37	5:45-7:25 pm	T	LS 133
	10:00-11:50	T F	LS 132
38	5:45-7:25 pm	T	LS 133
	12:00-1:50	T F	LS 132
39	5:45-7:25 pm	T	LS 133
	2:00-3:50	T F	LS 132
40	5:45-7:25 pm	T	LS 133
	10:00-11:50	W S	LS 308
41	3:00	T Th	LS 133
	8:00-9:50	M Th	H 26a
42	3:00	T Th	LS 133
	10:00-11:50	M Th	LS 308
43	3:00	T Th	LS 133
	12:00-1:50	M Th	LS 308
44	3:00	T Th	LS 133
	6:00-7:50 pm	M W	LS 308
45	3:00	T Th	LS 133
	8:00-9:50	T S	H 26a
46	3:00	T Th	LS 133
	8:00-9:50	T S	LS 132
47	3:00	T Th	LS 133
	10:00-11:50	T S	H 26c
48	3:00	T Th	LS 133
	12:00-1:50	T F	LS 308
49	3:00	T Th	LS 133
	6:00-7:50 pm	T Th	LS 132
50	3:00	T Th	LS 133
	10:00-11:50	W S	LS 132
GSA 210A-4 Introductory Environmental Biology			
1	10:00	M W F	LS 133
	8:00	M	LS 130
2	10:00	M W F	LS 133
	11:00	M	LS 130
3	10:00	M W F	LS 133
	4:00	M	LS 130
4	10:00	M W F	LS 133
	5:45-6:35 pm	M	LS 130
5	10:00	M W F	LS 133
	7:35-8:25 pm	M	LS 130
6	10:00	M W F	LS 133
	8:00	T	LS 130
7	10:00	M W F	LS 133
	10:00	T	LS 130
8	10:00	M W F	LS 133
	11:00	T	LS 130
9	10:00	M W F	LS 133
	8:00	W	LS 130
10	10:00	M W F	LS 133
	11:00	W	LS 130
GSA 210 B-4 Introductory Environmental Biology			
1	12:00	M W F	LS 133
	5:45-6:35 pm	W	LS 130
2	12:00	M W F	LS 133
	7:35-8:25 pm	W	LS 130
3	12:00	M W F	LS 133
	8:00	Th	LS 130
4	12:00	M W F	LS 133
	10:00	Th	LS 130
5	12:00	M W F	LS 133
	11:00	Th	LS 130
6	12:00	M W F	LS 133
	5:45-6:35 pm	Th	LS 130
7	12:00	M W F	LS 133
	8:00	F	LS 130
8	12:00	M W F	LS 133
	10:00	F	LS 130
9	12:00	M W F	LS 133
	8:00	S	LS 130
10	12:00	M W F	LS 133
	10:00	S	LS 130
301-4 Principles of Physiology			
1	1:00	M W F	TechA 111
	2:00-3:50	M	LS 113
2	1:00	M W F	TechA 111
	1:00-2:50	T	LS 113

3	1:00	M W F	TechA 111		7	11:00	MT	L 151	
	9:00-10:50	W	LS 113			2:00	F	Ag 146	
4	1:00	M W F	TechA 111		8	11:00	MT	L 151	
	2:00-3:50	W	LS 113			3:00	F	Ag 158	
5	1:00	M W F	TechA 111		9	11:00	MT	L 151	
	1:00-2:50	Th	LS 113			3:00	F	Ag 166	
6	1:00	M W F	TechA 111		10	11:00	MT	L 151	
	9:00-10:50	F	LS 113			4:00	F	Ag 144	
7	1:00	M W F	TechA 111		11	11:00	MT	L 151	
	5:45-7:25 pm	T	LS 113			8:00	F	Ag 166	
8	1:00	M W F	TechA 111		12	11:00	MT	L 151	
	5:45-7:25 pm	Th	LS 113			11:00	F	Ag 166	
9	1:00	M W F	TechA 111		340-3	Ecology [201]			
	9:00-10:50	M	LS 113		1	12:00	MT Th	LS 323	
312-3	Conservation of Natural Resources				345-3	Economic Botany			
	[1 year of Biology]				1	8:00	M W F	L 101	Welch
1	9:00	T Th	L 151	Krull	2	9:00	M W F	L 101	Welch
	9:00	F	L 161		3	3:00	M W F	L 101	Welch
2	10:00	T Th S	L 151	LeFebvre	4	4:00	M W F	L 101	Welch
315-3	History of Biology [1 year of Biology]				358a-3	Analysis of Physical Systems [101, Math 111b]			
1	12:00	M W F	L 141	Galbreath	1	1:00	T Th	TechD 131	
321-3	Introduction to Paleontology [GSA 200 or GSA 201b]					5:00-7:50 pm	Th	TechB 109	
1	2:00	W F	Ag 166	Utgaard	2	1:00	T Th	TechD 131	
	8:00-9:50	M	Ag 170			6:00-7:50 pm	T	TechB 109	
2	2:00	W F	Ag 166		3	1:00	T Th	TechD 131	
	10:00-11:50	M	Ag 170			9:00-10:50	S	TechB 109	
3	2:00	W F	Ag 166		358b-3	Analysis of Physical Systems [101, Math 111b]			
	1:00-2:50	M	Ag 170		1	8:00	T Th	TechD 131	
4	2:00	W F	Ag 166			6:00-7:50 pm	M	TechD 102	
	3:00-4:50	M	Ag 170		2	8:00	T Th	TechD 131	
5	2:00	W F	Ag 166			6:00-7:50 pm	W	TechD 102	
	6:00-7:25 pm	M	Ag 170		3	8:00	T Th	TechD 131	
322-3	Introduction to Rocks and Minerals					6:00-7:50 pm	T	TechD 102	
	[GSA 101c or 111b]				GENERAL STUDIES AREA B--MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)				
1	9:00	M W	Ag 168	Bell	101b-4	Survey of Western Tradition			
	8:00-9:50	Th	Ag 174		1	8:00	M W F	L 151	
2	9:00	M W	Ag 168			10:00	M	M 102	
	10:00-11:50	Th	Ag 174		2	8:00	M W F	L 151	
3	3:00	T Th	Ag 168	Bell		1:00	M	M 102	
	12:00-1:50	Th	Ag 174			8:00	M W F	L 151	
4	3:00	T Th	Ag 168	Bell		3:00	M	M 207	
	4:00-5:50	Th	Ag 174		4	8:00	M W F	L 151	
330-3	Weather					6:00	M	M 102	
1	2:00	M W	L 171		5	8:00	M W F	L 151	
	8:00	Th	Ag 158			7:35-8:25 pm	M	M 102	
2	2:00	M W	L 171		6	8:00	M W F	L 151	
	9:00	Th	Ag 158			8:00	T	M 206	
3	2:00	M W	L 171		7	8:00	M W F	L 151	
	10:00	Th	Ag 158			10:00	T	M 207	
4	2:00	M W	L 171		8	8:00	M W F	L 151	
	1:00	Th	Ag 158			11:00	F	M 102	
5	2:00	M W	L 171		9	8:00	M W F	L 151	
	2:00	Th	Ag 158			1:00	F	M 207	
6	2:00	M W	L 171		10	8:00	M W F	L 151	
	3:00	Th	Ag 158			2:00	F	M 206	
7	2:00	M W	L 171	Jones	11	8:00	M W F	L 151	
	8:00	Th	Ag 144			9:00	F	Wham 228	
8	2:00	M W	L 171		12	8:00	M W F	L 151	
	9:00	Th	Ag 144			10:00	W	M 203	
9	2:00	M W	L 171		13	1:00	M W F	L 151	
	10:00	Th	Ag 144			4:00	M	M 207	
10	2:00	M W	L 171		14	1:00	M W F	L 151	
	1:00	Th	Ag 144			6:00	M	M 207	
11	2:00	M W	L 171		15	1:00	M W F	L 151	
	2:00	Th	Ag 144			9:00	T	M 102	
12	2:00	M W	L 171		16	1:00	M W F	L 151	
	3:00	Th	Ag 144			12:00	T	M 102	
331-3	Climate				17	1:00	M W F	L 151	
1	11:00	MT	L 151			1:00	T	M 102	
	8:00	F	Ag 158		18	1:00	M W F	L 151	
2	11:00	MT	L 151			3:00	T	M 207	
	9:00	F	Ag 144		19	1:00	M W F	L 151	
3	11:00	MT	L 151			8:00	Th	M 206	
	10:00	F	Ag 158		20	1:00	M W F	L 151	
4	11:00	MT	L 151			10:00	Th	M 207	
	11:00	F	Ag 158		21	1:00	M W F	L 151	
5	11:00	MT	L 151			1:00	Th	M 102	
	12:00	F	Ag 144						
6	11:00	MT	L 151						
	1:00	F	Ag 144						

22	1:00	M W F	L 151
	6:00	Th	M 206
23	1:00	M W F	L 151
	8:00	F	M 206
24	1:00	M W F	L 151
	11:00	F	Wham 210
101c-4	Survey of Western Tradition		
1	8:00	T Th	L 151
	8:00	W	L 141
	9:00	M	M 207
2	8:00	T Th	L 151
	8:00	W	L 141
	1:00	M	M 206
3	8:00	T Th	L 151
	8:00	W	L 141
	2:00	M	M 102
4	8:00	T Th	L 151
	8:00	W	L 141
	6:00	M	M 206
5	8:00	T Th	L 151
	8:00	W	L 141
	12:00	T	M 206
6	8:00	T Th	L 151
	8:00	W	L 141
	2:00	T	M 207
7	8:00	T Th	L 151
	8:00	W	L 141
	4:00	T	M 207
8	8:00	T Th	L 151
	8:00	W	L 141
	6:00	T	M 102
9	8:00	T Th	L 151
	8:00	W	L 141
	7:35-8:25 pm	T	M 102
10	8:00	T Th	L 151
	8:00	W	L 141
	9:00	Th	M 206
11	8:00	T Th	L 151
	8:00	W	L 141
	10:00	W	M 206
12	8:00	T Th	L 151
	8:00	W	L 141
	11:00	Th	Ag 220
13	9:00	M W F	L 151
	7:35-8:25 pm	M	M 207
14	9:00	M W F	L 151
	12:00	T	M 207
15	9:00	M W F	L 151
	6:00	T	M 206
16	9:00	M W F	L 151
	7:35-8:25 pm	T	M 206
17	9:00	M W F	L 151
	11:00	W	M 206
18	9:00	M W F	L 151
	1:00	W	M 206
19	9:00	M W F	L 151
	2:00	W	M 206
20	9:00	M W F	L 151
	4:00	W	M 207
21	9:00	M W F	L 151
	11:00	F	M 207
22	9:00	M W F	L 151
	8:00	Th	M 102
23	9:00	M W F	L 151
	10:00	W	M 102
24	9:00	M W F	L 151
	11:00	W	M 102
25	3:00	M W F	L 151
	4:00	W	M 102
26	3:00	M W F	L 151
	6:00	W	M 102
27	3:00	M W F	L 151
	7:35-8:25 pm	W	M 102
28	3:00	M W F	L 151
	12:00	Th	M 102
29	3:00	M W F	L 151
	2:00	Th	M 207
30	3:00	M W F	L 151
	4:00	Th	M 102

31	3:00	M W F	L 151
	6:00	Th	M 102
32	3:00	M W F	L 151
	7:35-8:25 pm	Th	M 102
33	3:00	M W F	L 151
	8:00	F	M 102
34	3:00	M W F	L 151
	9:00	F	M 102
35	3:00	M W F	L 151
	8:00	Th	M 203
36	3:00	M W F	L 151
	11:00	T	M 209
37	6:00-7:25 pm	T Th	L 151
	8:00	W	M 206
38	6:00-7:25 pm	T Th	L 151
	9:00	W	M 207
39	6:00-7:25 pm	T Th	L 151
	11:00	W	M 207
40	6:00-7:25 pm	T Th	L 151
	1:00	W	M 207
41	6:00-7:25 pm	T Th	L 151
	3:00	W	M 207
42	6:00-7:25 pm	T Th	L 151
	6:00	W	M 207
43	6:00-7:25 pm	T Th	L 151
	7:35-8:25 pm	W	M 207
44	6:00-7:25 pm	T Th	L 151
	12:00	T	M 305
45	6:00-7:25 pm	T Th	L 151
	3:00	Th	M 207
46	6:00-7:25 pm	T Th	L 151
	7:35-8:25 pm	Th	M 206
47	6:00-7:25 pm	T Th	L 151
	8:00	Th	M 207
48	6:00-7:25 pm	T Th	L 151
	9:00	T	M 203
49	1:00	T Th	L 151
	1:00	F	L 141
	8:00	W	M 102
50	1:00	T Th	L 151
	1:00	F	L 141
	6:00	W	M 206
51	1:00	T Th	L 151
	1:00	F	L 141
	12:00	Th	M 207
52	1:00	T Th	L 151
	1:00	F	L 141
	7:35-8:25 pm	Th	M 207
53	1:00	T Th	L 151
	1:00	F	L 141
	1:00	Th	Ag 220
54	1:00	T Th	L 151
	1:00	F	L 141
	3:00	Th	M 206
55	1:00	T Th	L 151
	1:00	F	L 141
	4:00	Th	Ag 214
56	1:00	T Th	L 151
	1:00	F	L 141
	6:00	Th	Ag 220
57	1:00	T Th	L 151
	1:00	F	L 141
	10:00	W	Ag 148
58	1:00	T Th	L 151
	1:00	F	L 141
	12:00	W	M 302
59	1:00	T Th	L 151
	1:00	F	L 141
	2:00	W	M 305a
60	1:00	T Th	L 151
	1:00	F	L 141
	4:00	W	Ag 116
102a-4	Man and His World		
1	8:00	M W F	HEc 140b
	12:00	F	HEc 306
2	8:00	M W F	HEc 140b
	1:00	F	HEc 306
3	8:00	M W F	HEc 140b
	2:00	F	HEc 306



4	8:00	M W F	HEc 140b
	3:00	F	HEc 306
6	8:00	M W F	HEc 140b
	10:00	S	HEc 102
7	8:00	M W F	HEc 140b
	11:00	S	HEc 102
8	11:00	T Th S	HEc 140b
	9:00	F	HEc 306
9	11:00	T Th S	HEc 140b
	10:00	F	HEc 306
10	11:00	T Th S	HEc 140b
	11:00	F	HEc 306
11	11:00	T Th S	HEc 140b
	2:00	F	HEc 118
12	11:00	T Th S	HEc 140b
	3:00	F	HEc 118
14	11:00	T Th S	HEc 140b
	9:00	Th	HEc 104
15	12:00	T ThF	HEc 140b
	9:00	M	HEc 306
16	12:00	T Th F	HEc 140b
	10:00	M	HEc 306
17	12:00	T Th F	HEc 140b
	11:00	M	HEc 306
18	12:00	T ThF	HEc 140b
	3:00	M	HEc 306
19	12:00	T ThF	HEc 140b
	4:00	M	HEc 306
21	12:00	T ThF	HEc 140b
	9:00	T	HEc 306
22	3:00	MT Th	TechA 111
	9:00	W	HEc 306
23	3:00	MT Th	TechA 111
	10:00	W	HEc 306
24	3:00	MT Th	TechA 111
	11:00	W	HEc 306
25	3:00	MT Th	TechA 111
	3:00	W	HEc 306
26	3:00	MT Th	TechA 111
	4:00	W	HEc 306
28	3:00	MT Th	TechA 111
	9:00	Th	HEc 306
29	4:00	MT Th	TechA 111
	1:00	W	HEc 306
30	4:00	MT Th	TechA 111
	2:00	W	HEc 306
32	4:00	MT Th	TechA 111
	10:00	Th	HEc 306
33	4:00	MT Th	TechA 111
	11:00	Th	HEc 306
34	4:00	MT Th	TechA 111
	1:00	Th	HEc 306
35	4:00	MT Th	TechA 111
	2:00	Th	HEc 306
36*	1:00	M W F	Wham 228
37	1:00	M W F	LS 133
	10:00	T	HEc 306
39	1:00	M W F	LS 133
	1:00	T	HEc 306
40	1:00	M W F	LS 133
	2:00	T	HEc 306
41	1:00	M W F	LS 133
	3:00	T	HEc 201
42	1:00	M W F	LS 133
	10:00	W	HEc 202
43	1:00	M W F	LS 133
	11:00	W	HEc 102
44	10:00	M WTh	TechA 111
	1:00	F	HEc 206
46	10:00	M WTh	TechA 111
	3:00	F	HEc 106
47	10:00	M WTh	TechA 111
	12:00	Th	HEc 201
48	10:00	M WTh	TechA 111
	1:00	Th	HEc 203
49	10:00	M WTh	TechA 111
	2:00	Th	HEc 201
50	10:00	M WTh	TechA 111
	4:00	Th	HEc 201

\*Honors Sections: permission of instructor required  
for enrollment. 1 additional hour to be arranged.

102b-4	Man and His World--Spatial Patterns
1	12:00 T Th L 171
	12:00 W F Wham 203
2	12:00 T Th L 171
	12:00 W F Wham 205
3	12:00 T Th L 171
	12:00 W F Wham 206
4	12:00 T Th L 171
	12:00 W F Wham 305
*6	12:00 T Th L 171
	12:00 W F M 102
8	12:00 T Th L 171
	12:00 W F M 308
9	12:00 T Th L 171
	12:00 W F Ag 116
10	12:00 T Th L 171
	12:00 W F Ag 224
11	12:00 T Th L 171
	12:00 W F Ag 148
12	1:00 W F L 171
	1:00 T Th Ag 224
13	1:00 W F L 171
	1:00 T Th Ag 150
14	1:00 W F L 171
	1:00 T Th Ag 148
15	1:00 W F L 171
	1:00 T Th Comm 118
16	1:00 W F L 171
	1:00 T Th HEc 118
17	1:00 W F L 171
	1:00 T Th HEc 102
18	1:00 W F L 171
	1:00 T Th M 302
19	1:00 W F L 171
	1:00 T Th Wham 205
*22	1:00 W F L 171
	1:00 T Th Wham 201
23	4:00 M W L 171
	4:00 T Th M 305a
24	4:00 M W L 171
	4:00 T Th HEc 303
26	4:00 M W L 171
	4:00 T Th M 206
27	4:00 M W L 171
	4:00 T Th HEc 120
28	4:00 M W L 171
	4:00 T Th Ag 220
30	4:00 M W L 171
	4:00 T Th HEc 118
31	4:00 M W L 171
	4:00 T Th HEc 202
32	4:00 M W L 171
	4:00 T Th HEc 306

\*Honors Sections

201b-4	Society and Behavior
1	9:00 M W Wham 105 Rossel
	10:00 T Th Wham 112
2	9:00 M W Wham 105 Rossel
	1:00 T Th Wham 112
3	9:00 M W Wham 105 Rossel
	3:00 T Th Wham 112
4	9:00 M W Wham 105 Rossel
	4:00 T Th Wham 112
5	9:00 M W Wham 105 Rossel
	4:00 T Th Bailey 130
6	9:00 M W Wham 105 Rossel
	8:00 T Th Wham 212
7	9:00 M W Wham 105 Rossel
	9:00 T Th Wham 212
8	9:00 M W Wham 105 Rossel
	10:00 T Th Wham 212
9	1:00 M W L 141 Nall
	8:00 T Th Bailey 130
10	1:00 M W L 141 Nall
	9:00 T Th Bailey 130
11	1:00 M W L 141 Nall
	10:00 T Th Bailey 130

12	1:00	M W	L 141	Nall	27	6:00-7:40 pm M	L 141	Carrier
	11:00	T Th	Bailey 130			1:00-2:50	F	Ag 116
13	1:00	M W	L 141	Nall	28	6:00-7:40 pm M	L 141	Carrier
	12:00	T Th	Bailey 130			2:00-3:50	F	Ag 222
14	1:00	M W	L 141	Nall	211a-4	Political Economy		
	1:00	T Th	Bailey 130		1	9:00	M WThF	L 141
15	1:00	M W	L 141	Nall	2	10:00	M WThF	L 121
	2:00	T Th	Bailey 130		4	2:00	M WThF	L 151
16	1:00	M W	L 141	Nall	5	5:45-7:25 pm M W	L 121	
	3:00	T Th	Bailey 130		211b-4	Political Economy		
17	9:00	T Th	L 161	Patterson	1	10:00	M W F	L 141
	8:00	W F	Pierce 130			8:00	Th	Wham 228
18	9:00	T Th	L 161	Patterson	2	10:00	M W F	L 141
	9:00	W F	Bailey 130			8:00	T	Wham 228
19	9:00	T Th	L 161	Patterson	3	10:00	M W F	L 141
	10:00	W F	Bailey 130			9:00	T	Wham 228
20	9:00	T Th	L 161	Patterson	4	10:00	M W F	L 141
	11:00	W F	Bailey 130			9:00	Th	Wham 228
21	9:00	T Th	L 161	Patterson	5	10:00	M W F	L 141
	12:00	W F	Bailey 130			9:00	T	L 131
22	9:00	T Th	L 161	Patterson	6	10:00	M W F	L 141
	1:00	W F	Bailey 130			9:00	Th	L 131
23	9:00	T Th	L 161	Patterson	7	10:00	M W F	L 141
	2:00	W F	Bailey 130			9:00	Th	Wham 201
24	9:00	T Th	L 161	Patterson	8	10:00	M W F	L 141
	3:00	W F	Bailey 130			8:00	Th	Wham 326
25	7:35-9:15 pm M W		HEC 118	Nall	9	10:00	M W F	L 141
201c-4	Society and Behavior (Psychology) [201a]					12:00	T	L 131
1	11:00	M W	L 141	Carrier	10	10:00	M W F	L 141
	1:00-2:50	W	Ag 146			12:00	Th	L 131
2	11:00	M W	L 141	Carrier	11	3:00	M W F	L 141
	6:00-7:50 pm	W	Ag 146			3:00	T	Wham 228
3	11:00	M W	L 141	Carrier	12	3:00	M W F	L 141
	8:00-9:50	Th	Ag 146			3:00	Th	Wham 228
4	11:00	M W	L 141	Carrier	13	3:00	M W F	L 141
	10:00-11:50	Th	Ag 146			3:00	T	Wham 201
5	11:00	M W	L 141	Carrier	14	3:00	M W F	L 141
	1:00-2:50	Th	Ag 146			3:00	T	Wham 208
6	11:00	M W	L 141	Carrier	15	3:00	M W F	L 141
	3:00-4:50	Th	Ag 146			3:00	Th	Wham 208
7	11:00	M W	L 141	Carrier	16	3:00	M W F	L 141
	8:00-9:50	F	Ag 146			2:00	T	Wham 228
8	11:00	M W	L 141	Carrier	17	3:00	M W F	L 141
	12:00-1:50	F	Ag 146			2:00	Th	Wham 228
9	11:00	M W	L 141	Carrier	18	3:00	M W F	L 141
	8:00-9:50	S	Ag 146			4:00	T	Wham 228
10	11:00	M W	L 141	Carrier	19	3:00	M W F	L 141
	10:00-11:50	S	Ag 146			1:00	Th	Wham 228
11	4:00	M W	L 141	Carrier	20	3:00	M W F	L 141
	1:00-2:50	W	Ag 154			1:00	T	Wham 228
12	4:00	M W	L 141	Carrier	21	12:00	MT ThF	Wham 228
	6:00-7:50 pm	Th	Ag 148		22	5:45-7:25 pm M W	L 131	
13	4:00	M W	L 141	Carrier	23	5:45-7:25 pm T Th	Wham 201	
	8:00-9:50	Th	Ag 148		24	7:35-9:15 pm M W	L 131	
14	4:00	M W	L 141	Carrier	25	7:35-9:15 pm T Th	Wham 208	
	10:00-11:50	Th	Ag 148		300b-3	History of the United States (1815-1900)		
15	4:00	M W	L 141	Carrier	1	10:00	M W F	L 151
	1:00-2:50	Th	Ag 154		2	3:00	M W F	L 161
16	4:00	M W	L 141	Carrier	3	7:35-9:00 pm M W	M 206	Evans
	3:00-4:50	Th	Ag 154		302-3	Law--Civil Rights		
17	4:00	M W	L 141	Carrier	1	3:00	MT Th	L 131
	8:00-9:50	F	Ag 168		303-3	International Relations		
18	4:00	M W	L 141	Carrier	1	9:00-11:30	S	L 131
	12:00-1:50	F	Ag 222		2	11:00	M W F	L 131
19	4:00	M W	L 141	Carrier	3	12:00	M W F	Wham 208
	8:00-9:50	S	Ag 116		4	2:00	M W F	Wham 228
20	4:00	M W	L 141	Carrier	304-3	Law: History and Philosophy		
	10:00-11:50	S	Ag 116		1	10:00	T ThF	Wham 228
21	6:00-7:40 pm M		L 141	Carrier	311-3	Economic Development of U.S. [101c or 211a]		Abbass
	4:00-5:50	W	Ag 146		1	9:00	M W F	L 121
22	6:00-7:40 pm M		L 141	Carrier	2	3:00	M W	L 121
	3:00-4:50	W	Wham 329			3:00	F	L 131
23	6:00-7:40 pm M		L 141	Carrier	312-3	Comparative Economic Systems [211a]		
	6:00-7:50 pm	Th	Ag 146		1	1:00	Th	L 121
24	6:00-7:40 pm M		L 141	Carrier		1:00	T F	L 101
	6:00-7:50 pm	W	Ag 148		314-3	Economic Analysis of the Agriculture Policies of the U.S. [211a,b,c]		
25	6:00-7:40 pm M		L 141	Carrier	1	3:00	Th	Ag 224
	10:00-11:50	F	Ag 146			3:00	TW	Ag 225
26	6:00-7:40 pm M		L 141	Carrier	2	3:00	F	Ag 214
	10:00-11:50	F	Ag 148			3:00	TW	Ag 225

321-3	Socialization of the Individual [201b]	19	2:00	T Th	L 161	Magnus
1	2:00 M LS 323		10:00-11:50	S	A 102	
	2:00 W F L 101	21	10:00-11:50	S	A 106	
325-3	Race and Minority Relations [201b]		9:00	M	A 207	
1	10:00 M W F Wham 112 Patterson	22	8:00-9:50	T	A 202	
331-3	The American Educational Systems		11:00	M	A 207	
1	8:00 M W F Wham 205	23	5:00-6:50	T	A 102	
2	9:00 M W F Wham 205		2:00	M	A 207	
3	10:00 M W F Wham 205	24	5:00-6:50	M	A 102	
4	11:00 M W F Wham 205		11:00	T	A 207	
5	6:00-7:25 pm T Th Wham 205	25	5:00-6:50	Th	A 102	
6	1:00 M W F Wham 205		9:00	Th	A 207	
7	2:00 M W F Wham 205	27	10:00-11:50	T	A 102	
8	3:00 M W F Wham 205		9:00	Th	A 207	
9	6:00-7:25 pm M W Wham 205	28	1:00-2:50	T	A 102	
10	8:00 T Th Wham 205		11:00	Th	A 207	
	8:00 M Wham 210	29	3:00-4:50	T	A 102	
341-3	Marriage [201b]		7:35-8:25 pm	Th	A 207	
1	9:00 M W F LS 133 Smith	30	1:00-2:50	Th	A 102	
345-3	Introduction American Foreign Policy		11:00	F	A 207	
1	9:00 M W F L 131 Landecker	31	3:00-4:50	Th	A 102	
354-3	Industrial Economic Geography		11:00	S	A 207	
1	3:00 M W F Comm 122	32	3:00-4:50	F	A 102	
355-4	Geography of the U.S.		9:00	T	A 207	
1	10:00 MTW F HEc 206 Pennington	33	5:00-6:50	T	A 106	
361-3	Fundamentals of Decision Making [Junior standing]		11:00	W	A 207	
1	2:00 M Ag 166	34	5:00-6:50	Th	A 106	
	2:00 W F TechA 111		7:35-8:25 pm	M	A 207	
380b-3	East Europe: Present Institutions	35	7:35-9:15 pm	Th	A 106	
1	10:00 M W F Wham 201 Kamarasy		2:00	T	A 207	
385-3	Contemporary Political Isms	36	5:00-6:50	W	A 106	
1	8:00 M W F Wham 201 Kamarasy		7:35-8:25 pm	T	A 207	
390-3	Introduction Comparative Governments	37	7:35-9:15 pm	T	A 106	
1	12:00 M W F L 131 Dale		2:00	W	A 207	
2	3:00 M W F Wham 201 Hardenbergh	38	5:00-6:50	Th	A 102	
392-3	Introduction Latin American Government and Politics		9:00	F	A 207	
1	9:00 M W F Wham 201 Garner	40	5:00-6:50	M	A 106	
			2:00	Th	A 207	
GENERAL STUDIES AREA C--MAN'S INSIGHTS AND APPRECIATIONS (GSC)			102-3	Problems of Moral Decision		
100-3	Music Understanding	1	11:00	M W	Wham 105	Schilpp
1	8:00 M W F L 161 Chadwick		1:00	W	HEc 202	
2	10:00 T Th S Wham 105	2	11:00	M W	Wham 105	Schilpp
3	1:00 M W F L 161 Betterton		2:00	W	HEc 202	
4	2:00 M W F L 161 Betterton	3	11:00	M W	Wham 105	Schilpp
101-3	Art Appreciation		3:00	W	M 306A	
1	12:00 T Th L 151 Magnus	4	11:00	M W	Wham 105	Schilpp
	8:00-9:50 M A 102		8:00	Th	HEc 208	
2	12:00 T Th L 151 Magnus	5	11:00	M W	Wham 105	Schilpp
	8:00-9:50 S A 106		9:00	Th	HEc 208	
3	12:00 T Th L 151 Magnus	6	11:00	M W	Wham 105	Schilpp
	3:00-4:50 M A 102		10:00	Th	HEc 202	
4	12:00 T Th L 151 Magnus	7	11:00	M W	Wham 105	Schilpp
	1:00-2:50 M A 102		11:00	Th	HEc 208	
5	12:00 T Th L 151 Magnus	8	11:00	M W	Wham 105	Schilpp
	1:00-2:50 F A 102		12:00	Th	HEc 208	
7	12:00 T Th L 151 Magnus	9	11:00	M W	Wham 105	Schilpp
	11:00-12:50 F A 102		1:00	Th	HEc 208	
8	12:00 T Th L 151 Magnus	10	11:00	M W	Wham 105	Schilpp
	8:00-9:50 W A 102		2:00	Th	HEc 208	
9	12:00 T Th L 151 Magnus	11	11:00	M W	Wham 105	Schilpp
	10:00-11:50 S A 102		3:00	Th	HEc 202	
10	12:00 T Th L 151 Magnus	12	11:00	M W	Wham 105	Schilpp
	11:00-12:50 M A 102		8:00	F	HEc 303	
11	2:00 T Th L 161 Magnus	13	10:00	T Th	L 161	Allen
	8:00-9:50 Th A 102		11:00	Th	M 305a	
12	2:00 T Th L 161 Magnus	14	10:00	T Th	L 161	Allen
	1:00-2:50 W A 102		12:00	Th	HEc 202	
13	2:00 T Th L 161 Magnus	15	10:00	T Th	L 161	Allen
	8:00-9:50 T A 102		1:00	Th	HEc 202	
14	2:00 T Th L 161 Magnus	16	10:00	T Th	L 161	Allen
	11:00-12:50 Th A 102		2:00	Th	HEc 206	
15	2:00 T Th L 161 Magnus	17	10:00	T Th	L 161	Allen
	8:00-9:50 F A 102		3:00	Th	HEc 208	
16	2:00 T Th L 161 Magnus	18	10:00	T Th	L 161	Allen
	8:00-9:50 S A 112		8:00	F	HEc 202	
17	2:00 T Th L 161 Magnus	19	10:00	T Th	L 161	Allen
	11:00-12:50 W A 102		9:00	F	HEc 202	
18	2:00 T Th L 161 Magnus	20	10:00	T Th	L 161	Allen
	10:00-11:50 S A 112		10:00	F	HEc 208	



21	10:00	T Th	L 161.	Allen	71	10:00	M W	L 231	McKeefery
	11:00	F	HEc 202			11:00	W	HEc 208	
22	10:00	T Th	L 161	Allen	72	10:00	M W	L 231	McKeefery
	1:00	F	HEc 202			12:00	W	HEc 202	
23	10:00	T Th	L 161	Allen	103-3 World Literature for Composition				
	9:00	T	HEc 303		[GSD 102 or appropriate ACT percentile]				
24	10:00	T Th	L 161	Allen	1	8:00	M W F	Felts 130	
	10:00	S	HEc 208		2	8:00	T Th	Felts 130	
25	11:00	T Th	L 171	Clarke		8:00	W	Comm 112	
	1:00	Th	HEc 104		3	8:00	M W F	Warren 129	
26	11:00	T Th	L 171	Clarke	4	8:00	T Th	Warren 129	
	2:00	Th	HEc 202			8:00	F	Comm 112	
27	11:00	T Th	L 171	Clarke	5	8:00	M W F	M 306	
	3:00	Th	HEc 201		6	8:00	T Th	M 306	
28	11:00	T Th	L 171	Clarke		8:00	F	M 309	
	8:00	F	HEc 122		7	9:00	M W F	Felts 130	
29	11:00	T Th	L 171	Clarke	8	9:00	T Th	Felts 130	
	9:00	F	HEc 303			9:00	F	Comm 116	
30	11:00	T Th	L 171	Clarke	9	9:00	M W F	Warren 129	
	10:00	F	HEc 202		10	9:00	T Th	Warren 129	
31	11:00	T Th	L 171	Clarke		9:00	F	Comm 118	
	11:00	F	HEc 208		11	9:00	M W F	M 306	
32	11:00	T Th	L 171	Clarke	12	9:00	T Th S	M 306	
	12:00	F	HEc 202		13	10:00	M W F	Felts 130	
33	11:00	T Th	L 171	Clarke	14	10:00	T Th	Felts 130	
	1:00	F	M 307			10:00	W	Comm 116	
34	11:00	T Th	L 171	Clarke	15	10:00	M W F	Warren 129	
	2:00	F	HEc 202		16	10:00	T Th	Warren 129	
35	11:00	T Th	L 171	Clarke		10:00	F	Comm 122	
	3:00	F	M 305A		17	10:00	M W F	M 306	
36	11:00	T Th	L 171	Clarke	18	10:00	T Th	M 306	
	9:00	T	HEc 201			10:00	F	P 309	
37	1:00	T Th	L 141	Howie	19	11:00	M W F	Felts 130	
	8:00	M	HEc 202		20	11:00	T Th	Felts 130	
38	1:00	T Th	L 141	Howie		11:00	F	Comm 112	
	9:00	M	HEc 202		21	11:00	M W F	Warren 129	
39	1:00	T Th	L 141	Howie	22	11:00	T Th	Warren 129	
	10:00	M	M 309			11:00	W	Comm 116	
40	1:00	T Th	L 141	Howie	23	11:00	M W F	M 306	
	11:00	M	HEc 208		24	11:00	T Th	M 306	
41	1:00	T Th	L 141	Howie		11:00	W	P 309	
	12:00	M	HEc 202		25	12:00	M W F	Felts 130	
42	1:00	T Th	L 141	Howie	26	12:00	F	Warren 129	
	1:00	M	HEc 202			12:00	T Th	Felts 130	
43	1:00	T Th	L 141	Howie	27	12:00	MT Th	Warren 129	
	8:00	T	HEc 208		28	12:00	MT Th	Gym 203	
44	1:00	T Th	L 141	Howie	29	12:00	T F	M 307	
	9:00	T	HEc 208			12:00	W	HEc 122	
45	1:00	T Th	L 141	Howie	30	12:00	M W F	M 306	
	10:00	T	HEc 202		31	1:00	M W F	Felts 130	
46	1:00	T Th	L 141	Howie	32	1:00	T Th	Felts 130	
	11:00	T	HEc 202			1:00	F	Warren 129	
47	1:00	T Th	L 141	Howie	33	1:00	MT Th	Warren 129	
	10:00	T	HEc 118		34	1:00	M W	Wham 210	
48	1:00	T Th	L 141	Howie		1:00	Th	Wham 312	
	11:00	T	HEc 208		35	1:00	T F	Gym 203	
49	3:00	T Th	L 141	Flynn		1:00	W	HEc 122	
	8:00	M	HEc 203		36	2:00	M W F	Felts 130	
50	3:00	T Th	L 141	Flynn	37	2:00	T Th	Felts 130	
	9:00	M	HEc 203			2:00	F	Warren 129	
51	3:00	T Th	L 141	Flynn	38	2:00	MT Th	Warren 129	
	12:00	M	HEc 306		39	2:00	M	Ag 154	
52	3:00	T Th	L 141	Flynn		2:00	W	Wham 137	
	2:00	M	HEc 202			2:00	Th	Ag 220	
53	3:00	T Th	L 141	Flynn	40	2:00	ThF	M 102	
	8:00	T	HEc 202			2:00	W	HEc 122	
54	3:00	T Th	L 141	Flynn	41	3:00	M W F	Felts 130	
	12:00	T	HEc 208		42	3:00	T Th	Felts 130	
55	3:00	T Th	L 141	Flynn		3:00	F	Warren 129	
	1:00	T	HEc 208		43	3:00	MT Th	Warren 129	
56	3:00	T Th	L 141	Flynn	44	3:00	M WTh	Gym 203	
	2:00	T	HEc 208		45	3:00	T F	Gym 203	
57	3:00	T Th	L 141	Flynn		3:00	W	HEc 122	
	9:00	T	HEc 206		46	4:00	M W F	Felts 130	
58	3:00	T Th	L 141	Flynn	47	4:00	T Th	Felts 130	
	10:00	F	HEc 303			4:00	F	Warren 129	
69	10:00	M W	L 231	McKeefery	48	4:00	MT Th	Warren 129	
	9:00	Th	HEc 202		49	4:00	M WTh	Gym 203	
70	10:00	M W	L 231	McKeefery	50	4:00	T F	Gym 203	
	10:00	Th	M 303			4:00	W	HEc 122	

51	6:00-7:15 pm	M W	M 306		1	10:00	M WTh	Alg 115	Spurbeck
52	6:00-7:15 pm	T Th	M 306			10:00	T	Alg 106	
53	6:00-7:15 pm	M W	M 305		2	10:00	M WTh	Alg 115	Spurbeck
54	6:00-7:15 pm	T Th	M 305			11:00	T	Alg 115	
55	6:00-7:15 pm	M W	M 307		3	10:00	M WTh	Alg 115	Spurbeck
56	7:35-8:50 pm	M W	M 306			3:00	F	Alg 106	
57	7:35-8:50 pm	T Th	M 306		4	10:00	M WTh	Alg 115	Spurbeck
58	7:35-8:50	M W	M 305			8:00	F	Alg 115	
59	7:35-8:50 pm	T Th	M 305		5	1:00	M W F	Alg 115	Betterton
60	7:35-8:50 pm	M W	M 307			1:00	T	Alg 115	
110b-3	Introduction to Western Humanities [110a]				6	1:00	M W F	Alg 115	Betterton
1	10:00	M W F	Wham 105	Plochmann		1:00	Th	Alg 115	
200-4	Oral Interpretation of Literature				7	1:00	M W F	Alg 115	Betterton
1	8:00	MTWTh	Comm 118			10:00	T	Alg 248	
2	12:00	MTW F	Comm 214		8	1:00	M W F	Alg 115	Betterton
3	4:00	TWThF	Comm 116			3:00	Th	Alg 106	
4	12:00	MTW F	Comm 118		9	2:00	MT Th	Alg 115	Intravaia
5	1:00	MTWTh	Comm 116			3:00	W	Alg 106	
6	7:35-9:15 pm	M W	Comm 116		10	2:00	MT Th	Alg 115	Intravaia
7	7:35-9:15 pm	T Th	Comm 214			10:00	F	Alg 106	
8	12:00	MTWTh	Ag 222		11	2:00	MT Th	Alg 115	Intravia
9	4:00	MTWTh	Comm 118			10:00	W	Alg 106	
10	3:00-4:50	T Th	Ag 222		12	2:00	MT Th	Alg 115	Intravaia
11	7:35-9:15 pm	T Th	Comm 118			3:00	F	Alg 248	
12	7:35-9:15 pm	M W	Comm 118		207-3	Philosophy of the Beautiful			
201-3	Introduction to Drama [103]				1	10:00	T Th	L 171	McClure
1	8:00	M W F	Wham 303			11:00	Th	HEc 202	
2	9:00	T Th	Wham 303		2	10:00	T Th	L 171	McClure
	9:00	W	Wham 319			1:00	Th	Abbott 129	
3	10:00	M W F	Wham 303		3	10:00	T Th	L 171	McClure
4	11:00	T Th	Wham 303			9:00	F	HEc 201	
	11:00	F	Wham 312		4	10:00	T Th	L 171	McClure
5	12:00	M W F	Wham 303			10:00	F	Comm 112	
6	1:00	M W F	Wham 303		5	10:00	T Th	L 171	McClure
7	2:00	M W F	Wham 303			1:00	F	Comm 120	
8	3:00	M W F	Wham 303		6	10:00	T Th	L 171	McClure
9	4:00	M W F	Wham 303			2:00	F	Comm 116	
10	6:00-7:15 pm	M W	Wham 303		7	10:00	T Th	L 171	McClure
202-3	Introduction to Poetry [103]					8:00	M	Comm 112	
1	8:00	T Th	Wham 303		8	10:00	T Th	L 171	McClure
	8:00	F	Wham 308			9:00	M	M 301	
2	9:00	M W F	Wham 303		208-4	Logic and Meaning			
3	10:00	T Th	Wham 303		1	12:00	M W F	L 151	Mrs. Eames
	10:00	W	Wham 312			2:00	F	Wham 208	
4	11:00	M W F	Wham 303		2	12:00	M W F	L 151	Mrs. Eames
5	12:00	M	Wham 307			3:00	F	Wham 228	
	12:00	T Th	Wham 303		3	12:00	M W F	L 151	Mrs. Eames
6	1:00	M	Wham 307			9:00	M	M 201	
	1:00	T Th	Wham 303		4	12:00	M W F	L 151	Mrs. Eames
7	2:00	M	Wham 307			10:00	S	M 201	
	2:00	T Th	Wham 303		5	12:00	M W F	L 151	Mrs. Eames
8	3:00	M	Wham 307			8:00	M	M 102	
	3:00	T Th	Wham 303		6	12:00	M W F	L 151	Mrs. Eames
9	4:00	M	Wham 307			9:00	M	Wh 207	
	4:00	T Th	Wham 303		7	12:00	M W F	L 151	Mrs. Eames
10	6:00-7:15 pm	T Th	Wham 303			10:00	M	M 305A	
203-3	Drama and The Arts of The Theater				8	12:00	M W F	L 151	Mrs. Eames
1	11:00	T Th	Comm 137	Abrams		11:00	M	Ag 144	
	3:00	Th	Comm 112		9	9:00	M W F	L 171	Mr. Eames
2	11:00	T Th	Comm 137	Abrams		10:00	F	HEc 106	
	4:00	Th	Comm 112		10	9:00	M W F	L 171	Mr. Eames
3	11:00	T Th	Comm 137	Abrams		11:00	F	Pierce 130	
	3:00	F	Comm 112		11	9:00	M W F	L 171	Mr. Eames
4	11:00	T Th	Comm 137	Abrams		12:00	F	HEc 120	
	4:00	F	Comm 112		12	9:00	M W F	L 171	Mr. Eames
5	11:00	T Th	Comm 137	Abrams		1:00	F	HEc 201	
	1:00	Th	Comm 112		13	9:00	M W F	L 171	Mr. Eames
6	11:00	T Th	Comm 137	Abrams		2:00	F	Ag 154	
	1:00	F	Comm 116		14	9:00	M W F	L 171	Mr. Eames
204-4	Meaning in the Visual Arts [101 or 110 or consent]					3:00	F	Ag 116	
1	11:00	MTW F	L 231	Magnus	15	9:00	M W F	L 171	Mr. Eames
2	2:00	M WThF	L 231	Magnus		10:00	S	Ag 224	
205-4	The Contemporary Environment				16	9:00	M W F	L 171	Mr. Eames
1	11:00-12:50	T	L 161	Grosowsky		8:00	M	HEc 201	
	12:00	ThF	L 161	Grosowsky	209-4	Modern Literature---Form and Idea [103]			
2	3:00-4:50	T	L 121	Grosowsky	1	8:00	MT ThF	Wham 307	
	3:00	ThF	L 121	Grosowsky	2	8:00	T Th	Wham 317	
3	6:00-7:50 pm	M	L 171	Grosowsky		8:00	W	Wham 307	
	7:00 pm	WTh	L 171	Grosowsky		8:00	F	Wham 112	
206-4	Foundations of Music [100]				3	9:00	MT ThF	Wham 307	

4	9:00	T Th	Wham 317		3	12:00	M W F	HEc 106	
	9:00	W	Wham 307		4	1:00	T F	Wham 329	
	9:00	F	Wham 210			1:00	W	HEc 201	
5	10:00	MT ThF	Wham 307		5	3:00	M WTh	M 209	
6	10:00	T Th	Wham 317		6	4:00	M WTh	M 209	
	10:00	W	Wham 307		7	7:35-8:50 pm	T Th	Wham 329	
	10:00	F	Wham 203		349-3	The Cinema			
7	11:00	MT ThF	Wham 307		1	3:00	M Th	L 231	Mercer
8	11:00	T Th	Wham 317		1	3:00-4:50	W	L 231	Mercer
	11:00	W S	Wham 307		351a-3	Masterpieces of the Novel (18th and 19th Century)			
9	12:00	TWThF	Wham 307		1	9:00	W	M 304A	
10	12:00	MT ThF	Abbott 129			9:00	FS	M 209	
11	1:00	TWThF	Wham 307		2	11:00	M W F	Wham 329	
12	1:00	MT ThF	Wham 319		351b-3	Masterpieces of the Novel (20th Century)			
13	2:00	TWThF	Wham 307		1	1:00	M WTh	M 209	
14	2:00	MT ThF	Wham 319		2	2:00	M W F	M 301	
15	3:00	TWThF	Wham 307		3	6:00-7:15 pm	T Th	M 201	
16	3:00	MT ThF	Wham 319		4	7:35-8:50	T Th	Wham 321	
17	4:00	TWThF	Wham 307		354a-3	History of Theater			
18	4:00	MT ThF	Wham 319		1	To be arranged			
19	4:00	MT ThF	Wham 329		357b-3	Music History and Literature			
20	5:45-7:25 pm	M W	Wham 307		1	11:00	M WThF	Alg 115	Morgan
21	5:45-7:25 pm	T Th	Wham 307		365-3	Shakespeare			
22	5:45-7:25	T Th	Wham 317		1	8:00	W	M 304A	
23	7:35-9:15 pm	M W	Wham 307			8:00	F	M 209	
24	7:35-9:15 pm	T Th	Wham 307			8:00	T	M 207	
25	7:35-9:15 pm	T Th	Wham 317		2	9:00	M W F	TechA 320	
210-3	Introduction to Fiction [103]				3	10:00	T Th S	HEc 106	
1	8:00	M W F	Wham 317		4	11:00	T Th	HEc 203	
2	9:00	M W F	Wham 317			11:00	W	HEc 122	
3	10:00	M W F	Wham 317		5	2:00	T	Wham 210	
4	11:00	M W F	Wham 317			2:00	W	Wham 329	
5	12:00	M WTh	Wham 317			2:00	F	Wham 206	
6	1:00	M WTh	Wham 317		6	3:00	T	M 209	
7	2:00	M WTh	Wham 317			3:00	W F	Wham 305	
8	3:00	M WTh	Wham 317		7	4:00	T	M 209	
9	4:00	M WTh	Wham 317			4:00	W F	M 306a	
10	6:00-7:15 pm	M W	Wham 317		8	6:00-7:15 pm	M W	Wham 329	
211b-3	Introduction to Oriental Humanities				382-3	Graeco-Roman and Medieval Philosophy			
1	9:00	M W F	M 309	Liu	1	8:00	M W F	HEc 208	Liu
311-3	Religions and Philosophies of India				2	12:00	M W F	HEc 208	Howie
1	10:00	M W F	L 161	Liu	3	1:00	M W F	HEc 208	Diefenbeck
317-3	Recent American Literature				4	2:00	M W F	HEc 208	Eames
1	8:00	M W F	Wham 319		5	3:00	M W F	HEc 202	Kelly
2	9:00	M W F	HEc 120		386-3	Early American Philosophy			
3	10:00	T Th S	Wham 319		1	2:00	M	TechA 111	Hahn
4	11:00	T Th S	Wham 319			2:00	W F	L 141	
5	12:00	M WTh	HEc 120		GENERAL STUDIES AREA D--ORGANIZATION AND COMMUNICATION				
6	1:00	M WTh	Wham 329		OF IDEAS (GSD)				
7	2:00	M WTh	Wham 328		101-3	English Composition			
8	3:00	T Th	M 203		1	8:00	M W F	Gym 203	
	3:00	F	M 209		3	8:00	M W F	Ag 150	
9	4:00	T Th	M 203		4	8:00	T Th	Ag 150	
	4:00	F	M 209			8:00	M	Ag 144	
10	7:35-8:50 pm	M W	Wham 329		6	9:00	T Th	Wh 203	
331-3	Latin Literature in Translation					9:00	W	Wham 329	
1	1:00	M WTh	M 309		7	9:00	M W F	Ag 150	
341-3	Art of the Early 20th Century [101 or Art 100]				9	10:00	M W F	Gym 203	
1	9:00	M W F	L 231	Gluhman	11	10:00	M W F	Ag 150	
345a-3	World Literature (Ancient, Greek, Roman)				13	11:00	M W F	Gym 203	
2	9:00	T Th	Wham 205		14	11:00	T Th	Gym 203	
	9:00	F	Wham 208			11:00	F	Wh 207	
3	10:00	M W F	Wham 319		15	11:00	M W F	Ag 150	
4	11:00	M W F	HEc 203		16	12:00	T Th	M 306	
5	12:00	TW F	HEc 201			12:00	F	M 305	
			Wham 329		18	12:00	M WTh	M 307	
6	6:00-7:15 pm	M W	HEc 202		19	1:00	MT Th	M 306	
7	7:35-8:50 pm	M W	HEc 201		22	2:00	MT Th	M 306	
345b	World Literature (Medieval, Renaissance, and 18th Century)				24	2:00	T	Ag 150	
1	12:00	T F	Wham 317			2:00	W F	M 306	
	12:00	W	Wham 319		25	3:00	MT Th	M 306	
2	1:00	T F	Wham 317		27	3:00	Th	Ag 150	
	1:00	W	Wham 319			3:00	W F	M 306	
3	2:00	T F	Wham 317		30	4:00	Th	Ag 150	
	2:00	W	Wham 319			4:00	W F	M 306	
4	3:00	T F	Wham 317		32	6:00-7:15 pm	T Th	Ag 150	
	3:00	W	Wham 319		33	6:00-7:15 pm	M W	M 310	
345c-3	World Literature (Romantic, Victorian, and Modern)				35	7:35-8:50 pm	T Th	Ag 150	
1	8:00	MT Th	M 209		36	7:35-8:50 pm	M W	M 310	
2	10:00	M W F	Wham 329						



2-3	English Composition [101 or equivalent ACT percentile]			53	1:00	T	M 305
1	8:00	M W F	Cl 109	54	1:00	W F	M 310
2	8:00	T Th	Cl 109	55	1:00	M W F	M 305
	8:00	W	HEc 106	56	2:00	MT Th	M 307
3	8:00	M W F	M 310	57	2:00	M WTh	M 209
4	8:00	T Th	M 310		2:00	T F	M 209
	8:00	F	HEc 118		2:00	W	M 203
5	8:00	M W F	M 305	58	2:00	M WTh	M 306a
6	8:00	T Th	M 305	59	2:00	T F	M 306a
	8:00	W	M 309		2:00	W	Cl 109
7	8:00	M W F	M 307	60	2:00	MT Th	Cl 109
8	8:00	T Th	M 307	61	2:00	T Th	M 310
	8:00	W	M 210		2:00	F	Cl 109
9	8:00	M W F	Wham 203	62	2:00	M WTh	M 305
10	8:00	T Th	M 306a	63	2:00	M W F	M 310
	8:00	F	M 210	64	2:00	W	M 304a
11	9:00	M W F	Cl 109		2:00	T F	M 305
12	9:00	T Th	Cl 109	65	3:00	M W F	M 203
	9:00	W	HEc 118	66	3:00	MT Th	M 306a
13	9:00	M W F	M 310	67	3:00	M W F	Cl 109
14	9:00	T Th S	M 310	68	3:00	T Th	Cl 109
15	9:00	M W F	M 305		3:00	F	M 310
16	9:00	T Th	M 305	69	3:00	M WTh	M 310
	9:00	F	Wham 326	70	3:00	T	M 310
17	9:00	M W F	M 307		3:00	W F	M 305
18	9:00	T Th S	M 307	71	3:00	MT Th	M 305
19	9:00	T Th	M 306a	72	3:00	M WTh	M 307
	9:00	M	M 210	73	3:00	T F	M 307
20	10:00	M W F	Cl 109		3:00	W	M 304a
21	10:00	T Th	Cl 109	74	4:00	M W F	M 203
	10:00	W	Ag 168	75	4:00	MT Th	M 306a
22	10:00	M W F	M 310	76	4:00	M W F	Cl 109
23	10:00	T Th	M 310	77	4:00	T Th	Cl 109
	10:00	F	HEc 120		4:00	F	M 310
24	10:00	M W F	M 305	78	4:00	M WTh	M 310
25	10:00	T Th	M 305	79	4:00	T	M 310
	10:00	W	P 309		4:00	W F	M 305
26	10:00	M W F	M 307	80	4:00	MT Th	M 305
27	10:00	T Th	M 307	81	4:00	M WTh	M 307
	10:00	W	M 209	82	4:00	T F	M 307
28	10:00	F	M 206		4:00	W	M 304a
	10:00	W	M 304a	83	6:00-7:15 pm	T Th	M 203
	10:00	T	M 201	84	6:00-7:15 pm	M W	M 201
29	11:00	M W F	Cl 109	85	6:00-7:15 pm	T Th	M 304a
30	11:00	T Th	Cl 109	86	6:00-7:15 pm	M W	M 209
	11:00	W	HEc 303	87	6:00-7:15 pm	M W	M 306a
31	11:00	M W F	M 310	88	6:00-7:15 pm	T Th	M 306a
32	11:00	T Th	M 310	89	6:00-7:15 pm	M W	Cl 109
	11:00	W	HEc 202	90	6:00-7:15 pm	T Th	Cl 109
33	11:00	M W F	M 305	91	6:00-7:15 pm	T Th	M 209
34	11:00	T Th	M 305	92	7:35-8:50 pm	T Th	M 203
	11:00	M	M 201	93	7:35-8:50 pm	M W	M 209
35	11:00	M W F	M 307	94	7:35-8:50 pm	T Th	M 304a
36	11:00	T Th	M 307	95	7:35-8:50 pm	T Th	M 209
	11:00	W	P 301	96	7:35-8:50 pm	M W	M 306a
37	11:00	T Th	M 203	97	7:35-8:50 pm	T Th	M 306a
	11:00	W	M 304a	98	7:35-8:50 pm	M W	Cl 109
38	12:00	M W F	M 203	99	7:35-8:50 pm	T Th	Cl 109
39	12:00	T Th	M 203	100	7:35-8:50 pm	T Th	M 310
	12:00	F	M 209	103-3	Oral Communication of Ideas		
40	12:00	M WTh	M 209	1	8:00	M W F	Ag 222
41	12:00	T	M 209		1:00	Th	L 231
	12:00	M W	M 306a	2	8:00	M W F	Wham 137
42	12:00	MT Th	Cl 109		1:00	Th	L 101
43	12:00	T Th	M 306a	3	2:00	M W F	Comm 214
	12:00	M	M 302		1:00	Th	Comm 120
44	12:00	M WTh	M 310	4	8:00	M W F	Wham 305
45	12:00	T	M 310		1:00	Th	Comm 122
	12:00	W F	Cl 109	5	8:00	M W F	Abbott 129
46	12:00	M WTh	M 305		1:00	Th	HEc 201
47	1:00	T Th	M 203	6	8:00	T Th S	Ag 222
	1:00	F	M 209		12:00	Th	L 231
48	1:00	T	M 209	7	8:00	T Th	Abbott 129
	1:00	M Th	M 306a		8:00	F	Comm 214
49	1:00	TW F	M 306a		12:00	Th	L 101
50	1:00	M WTh	Cl 109	8	8:00	T Th	Wham 137
51	1:00	MT Th	M 310		8:00	F	Wham 206
52	1:00	T F	Cl 109		12:00	Th	Comm 120
	1:00	W	M 304a	9	8:00	T Th	Wham 305
					8:00	F	Wham 301a
					12:00	Th	Comm 122

10	9:00	M W F	Ag 222	45	7:35-9:00 pm	T Th	Comm 116
	1:00	Th	L 231		10:00	Th	Comm 120
11	9:00	M W F	Wham 137	46	2:00	M W F	Wham 305
	1:00	Th	L 101		10:00	Th	Comm 122
12	3:00	M W F	Comm 214	47	3:00	M W	Ag 222
	1:00	Th	Comm 120		3:00	F	Ag 174
13	9:00	M W F	Wham 305		11:00	Th	L 231
	1:00	Th	Comm 122	48	3:00	T ThF	Abbott 129
14	9:00	M W F	Abbott 129		11:00	Th	L 101
	1:00	Th	HEc 201	49	3:00	M W F	Wham 137
15	9:00	T Th S	Ag 222		11:00	Th	Comm 120
	12:00	Th	L 231	50	3:00	MT Th	Wham 305
16	9:00	T Th	Abbott 129		11:00	Th	Comm 122
	9:00	F	Comm 214	51	4:00	M W F	Ag 222
	12:00	Th	L 101		11:00	Th	L 231
17	9:00	T Th	Wham 137	52	4:00	T ThF	Abbott 129
	9:00	F	Wham 203		11:00	Th	L 101
	12:00	Th	Comm 120	53	4:00	M W F	Wham 137
18	9:00	T Th	Wham 305		11:00	Th	Comm 120
	9:00	F	Wham 301a	54	4:00	MT Th	Wham 305
	12:00	Th	Comm 122		11:00	Th	Comm 122
19	10:00	MT Th	Ag 222	55	6:00-7:25 pm	M W	Ag 222
	8:00	Th	L 231		9:00	Th	HEc 206
20	10:00	T Th S	M 210	56	6:00-7:25 pm	M W	Comm 214
	8:00	Th	L 101		10:00	Th	HEc 206
21	6:00-7:25 pm	M W	Wham 137	57	6:00-7:25 pm	M W	Wham 305
	8:00	Th	Comm 120		11:00	Th	HEc 206
22	10:00	MT Th	Wham 305	58	6:00-7:25 pm	T Th	Wham 305
	8:00	Th	Comm 122		12:00	Th	HEc 206
23	10:00	MT Th	Abbott 129	59	6:00-7:25 pm	T Th	HEc 206
	8:00	Th	HEc 201		1:00	Th	HEc 206
24	10:00	W F	Ag 222	60	7:35-9:00 pm	M W	Ag 222
	10:00	T	Ag 224		9:00	Th	HEc 206
	9:00	Th	L 231	61	7:35-9:00 pm	M W	Comm 214
25	10:00	W FS	Wham 137		10:00	Th	HEc 206
	9:00	Th	L 101	62	7:35-9:00 pm	M W	Wham 305
26	1:00	M	HEc 206		11:00	Th	HEc 206
	1:00	W F	HEc 120	63	7:35-9:00 pm	T Th	Wham 305
	9:00	Th	Comm 120		12:00	Th	HEc 206
27	10:00	W FS	Wham 305	64	7:35-9:00 pm	T Th	HEc 206
	9:00	Th	Comm 122		1:00	Th	HEc 206
28	10:00	W F	Abbott 129	106-0	Intermediate	Algebra	
	10:00	M	Bailey 130	1	8:00	MT Th	M 210
	9:00	Th	HEc 201		9:00	F	M 306A
29	11:00	MT Th	Ag 222	2	9:00	M W	Wham 208
	8:00	Th	L 231		9:00	T Th	TechA 320
30	11:00	T Th S	M 210	3	2:00	M WTh	TechA 220
	8:00	Th	L 101		2:00	T	Wham 205
31	7:35-9:00 pm	M W	Wham 137	4	4:00	MTW F	Ag 216
	8:00	Th	Comm 120	108a-3	Fundamentals	of Mathematics	[106 or high school]
32	11:00	MT Th	Wham 305	1	8:00	M W F	TechA 120
	8:00	Th	Comm 122	2	8:00	M W F	TechA 122
33	11:00	MT Th	Abbott 129	3	8:00	M W F	TechA 222
	8:00	Th	HEc 201	4	8:00	M W F	TechA 310
34	11:00	W F	Ag 222	5	8:00	M W F	TechA 308
	11:00	T	Ag 220	8	8:00	M W F	Comm 120
	9:00	Th	L 231	9*	10:00	M W F	M 302
35	11:00	W	Wham 208	10	12:00	M W F	TechA 120
	11:00	FS	Wham 301a	11	12:00	M W F	TechA 122
	9:00	Th	L 101	12	12:00	M W F	TechA 222
36	2:00	M	HEc 306	13	12:00	M W F	TechA 310
	2:00	W F	HEc 303	14	12:00	M W F	TechA 308
	9:00	Th	Comm 120	17	12:00	M W F	Comm 120
37	11:00	W FS	Wham 305	18*	4:00	M W F	TechA 120
	9:00	Th	Comm 122	19	6:00-7:15 pm	M W	Ag 216
38	11:00	W F	Abbott 129	21	7:35-8:50 pm	T Th	Ag 216
	11:00	M	Bailey 130	*For Elementary Education Majors only.			
	9:00	Th	HEc 201	108b-3	108a		
39	1:00	TWTh	Ag 222	1	8:00	T Th	TechA 120
	10:00	Th	L 231		8:00	F	TechA 322
40	1:00	M W F	Abbott 129	2	10:00	T Th	Ag 216
	10:00	Th	L 101		10:00	F	Ag 116
41	6:00-7:25 pm	T Th	Comm 116	3	10:00	M W F	TechA 120
	10:00	Th	Comm 120	4	10:00	M W F	TechA 122
42	1:00	M W F	Wham 305	5	10:00	M W F	TechA 222
	10:00	Th	Comm 122	6	10:00	M W F	TechA 310
43	2:00	TWTh	Ag 222	7	10:00	M W F	TechA 308
	10:00	Th	L 231	10	10:00	M W F	Comm 120
44	2:00	M W F	Abbott 129	11	11:00	T Th S	HEc 120
	10:00	Th	L 101				

12*	11:00	M W F	HEc 120
13	3:00	M W F	TechA 120
14	3:00	M W F	TechA 122
15	3:00	M W F	TechA 222
16	3:00	M W F	TechA 310
17	3:00	M W F	TechA 308
20	3:00	M W F	Comm 120
21	4:00	M W F	Brown 130
22	6:00-7:15 pm	T Th	M 102a
23	7:35-8:50 pm	M W	M 102a

\*For Elementary Education Majors only.

108c-3	1	8:00	M W F	HEc 306
	2	9:00	T Th	TechA 120
		9:00	F	Arena 121
	3	10:00	M W F	Ag 216
	4	11:00	M W F	M 302
	5	12:00	T ThF	M 302
	6	1:00	T	TechA 320
		1:00	W F	M 302
	7	2:00	T F	TechA 220
		2:00	Th	TechA 320
	8	4:00	M W F	M 102a
	9	6:00-7:15 pm	M W	M 102a
110-3	Statistics [108b, 114b, or equivalent]			
	1	8:00	T Th	L 121
		8:00	M	L 221
	2	11:00	T	L 101
		11:00	M	L 221
		11:00	Th	L 131
	3	7:35-9:00 pm	M W	L 151
114c-3	College Algebra and Trigonometry [114a]			
	1	10:00	T Th	TechA 120
		10:00	F	TechA 220
	2	12:00	M W	TechA 422
		12:00	Th	TechA 322
	3	2:00	M WTh	M 302
	4	4:00	M W F	TechA 210

120b-3	Elementary Chinese			
	1	10:00	M W F	M 308 Yang
CHIN 120b-1	Chinese Conversation [Concurrent 120b]			
	1	10:00	Th	Wh 214 Yang

123a-3	Elementary French			
	1	9:00	T Th	M 303
		9:00	W	M 302
	2	10:00	M W F	Wh 113
	3	11:00	MT Th	Wh 207
	4	12:00	M W F	Wh 207
	6	2:00	M W F	Wh 203
FR 123a-1	French Conversation [Concurrent 123a]			
	2	10:00	T	M 202
	3	11:00	W	Ag 148
	4	2:00	W	Wh 113

123b-3	Elementary French [123a]			
	1	8:00	M W F	Wh 113
	3	9:00	M F	Wh 113
		9:00	W	Wh 203
	4	9:00	T Th S	Wh 207
	5	10:00	M W F	Wh 203
	6	10:00	T Th S	Wh 113
	8	11:00	T Th	M 303
		11:00	W	M 309
	7	11:00	M W F	M 303
	9	12:00	M W F	Wh 113
	10	12:00	MT Th	Wh 203
	11	1:00	M W F	Wh 207
	12	1:00	MT Th	HEc 120
	13	2:00	M W F	M 303
	14	2:00	M	Wh 113
		2:00	T Th	HEc 106
	15	3:00	M W F	HEc 120
	16	3:00	MT Th	HEc 106
	17	4:00	M W F	Wh 207
	18	4:00	MT Th	Wh 113
	19	6:00-7:25 pm	M W	Wh 207
	20	6:00-7:25 pm	T Th	Wh 207
FR 123b-1	French Conversation [Concurrent 123b]			
	1	8:00	T	Wh 207
	2	9:00	W	M 201

3	10:00	Th	Wh 207
4	11:00	T	HEc 306
5	12:00	T	Wh 207
6	12:00	Th	Wh 207
7	1:00	W	Wh 203
8	2:00	F	Wh 113
10	3:00	W	M 202
126a-3	Elementary German		
	1	8:00	M W F M 308
	2	9:00	M W F M 303
	3	1:00	M W F HEc 106
	4	2:00	M W F M 308

GER 126a-1	German Conversation [Concurrent 126a]			
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	1	9:00	Th	M 308
	2	1:00	Th	M 308
126b-3	Elementary German [126a]			
	1	8:00	M W F	Wh 212
	2	8:00	M W F	HEc 104
	3	9:00	M W F	HEc 104
	4	9:00	M W F	M 308
	6	10:00	M W F	Wh 212
	7	11:00	M W F	M 308
	8	11:00	M W F	HEc 106
	9	12:00	M W F	Wh 212
	11	1:00	M W F	HEc 104
	12	1:00	M W F	M 308
	13	2:00	M W F	HEc 104
	14	2:00	M W F	HEc 106
	15	3:00	M W F	Wh 212
	17	4:00	M W F	Wh 212
	19	6:00-7:25 pm	M W	Wh 212

GER 126b-1	German Conversation [Concurrent 126b]			
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1*	8:00	T	Wh 212
2	9:00	T	HEc 104
3	11:00	Th	M 209
5	1:00	T	HEc 104
6	2:00	T	HEc 104

\*Special section to be taken with German 126b section 1.

130b-3	Elementary Greek [130a]			
	1	8:00	T W F	Wh 203
133b-3	Elementary Latin [133a]			
	1	1:00	MT Th	Wh 203
135b-3	Elementary Portuguese [135a]			
	1	10:00	MT Th	HEc 120
PORT 135b-1	Portuguese Conversation [Concurrent 135b]			
	1	10:00	W	HEc 120
144b-3	Elementary Italian [144a]			
	1	9:00	M W F	Pierce 130
ITAL 144b-1	Italian Conversation [Concurrent 144b]			
	1	9:00	T	Wh 107
136b-3	Elementary Russian [136a]			
	1	10:00	M W F	Pierce 130
	2	2:00	M W F	Pierce 130
	3	6:00-7:25 pm	T Th	M 308
RUSS 136b-1	Russian Conversation [Concurrent 136b]			
	1	10:00	Th	Wham 201
	2	2:00	Th	Abbott 129
	3	6:00	M	M 308

140a-3	Elementary Spanish			
	1	8:00	M W F	Wh 214
	2	9:00	M W F	M 305a
	3	10:00	M W F	Wh 214
	4	11:00	TWTh	Pierce 130
	5	2:00	M W F	Wh 214
	6	3:00	M W F	Wh 214

SPAN 140a-1	Conversation [Concurrent 140a]			
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	1	9:00	T	M 202
	2	10:00	Th	M 202
	3	2:00	Th	M 202
140b-3	Elementary Spanish (Special Section) [140a]			
	1	11:00	M W F	M 305a
	2	8:00	M W F	M 305a
	3	9:00	T Th S	M 305a
	4	10:00	T Th	M 305a
		10:00	M	P 309
	5	11:00	M W F	Wh 214
	6	11:00	T Th S	Wh 214
	7	12:00	M W F	M 305a
	8	12:00	M W F	Wh 214



9	1:00	M W F	Wh 214
10	2:00	MT Th	M 305a
11	2:00	M W F	M 210
12	2:00	M W F	Wham 321
13	3:00	MT Th	M 305a
14	3:00	M W F	Pierce 130
15	6:00-7:25 pm	T Th	Wh 214
16	6:00-7:25 pm	M W	Wh 214
SPAN 140b-1 Spanish Conversation [Concurrent 140b]			
1	11:00	T	Wh 212
2	9:00	W	Wham 301a
3	10:00	Th	Wh 212
4	2:00	T	Wh 214
5	3:00	Th	Wh 214
140c-3 Elementary Spanish [140b]			
1	11:00	M W F	Ag 216
SPAN 140c-1 Spanish Conversation [Concurrent 140c]			
1	11:00	T	Ag 216

GENERAL STUDIES AREA E--HEALTH AND PHYSICAL  
DEVELOPMENT (GSE)

100b-1 Restricted Physical Education				
1	10:00	M W F	Arena	Greene
2	11:00	M W F	Arena	Okita
101a-1 Beginning Swimming				
1	8:00	M W F	Pool	
2	8:40-9:20	M W F	Pool	
3	9:20-10:00	M W F	Pool	
4	10:00	M W F	Pool	
5	7:00	MT Th	Pool	
6	8:00 pm	MT Th	Pool	
101b-1 Intermediate Swimming				
1	12:00	T Th	Pool	
2	7:00	W	Pool	
3	8:00-9:50	S	Pool	
4	10:00-11:50	S	Pool	
5	3:00	M F	Pool	
102-1 Physical Fitness				
2	8:00	M F	Arena	
	8:00	T	L 161	
4	8:00	T Th	Arena	
	9:00	M	L 161	
6	8:00	W S	Arena	
	8:00	T	L 161	
8	9:00	M F	Arena	
	8:00	T	L 161	
10	9:00	T Th	Arena	
	9:00	M	L 161	
12	9:00	W S	Arena	
	9:00	M	L 161	
14	10:00	M F	Arena	
	11:00	W	L 151	
15	10:00	T Th	Arena	
	9:00	M	L 161	
16	10:00	T Th	Arena	
	11:00	W	L 151	
18	10:00	W S	Arena	
	8:00	T	L 161	
19	11:00	M F	Arena	
	11:00	W	L 151	
20	11:00	M F	Arena	
	11:00	W	L 151	
21	11:00	T Th	Arena	
	11:00	W	L 151	
22	11:00	T Th	Arena	
	11:00	W	L 151	
24	11:00	W S	Arena	
	9:00	M	L 161	
26	12:00	M W	Arena	
	3:00	Th	L 161	
27	12:00	T Th	Arena	
	3:00	Th	L 161	
28	12:00	T Th	Arena	
	11:00	W	L 151	
29	1:00	M W	Arena	
	11:00	W	L 151	
30	1:00	M W	Arena	
	3:00	Th	L 161	
31	1:00	T Th	Arena	
	3:00	Th	L 161	

32	1:00	T Th	Arena
	3:00	Th	L 161
33	2:00	M Th	Arena
	3:00	Th	L 161
34	2:00	M Th	Arena
	3:00	Th	L 161
35	2:00	T F	Arena
	3:00	Th	L 161
36	2:00	T F	Arena
	3:00	Th	L 161
103a-1 Square and Social Dance			
1	10:00-11:15	T Th	Gym 114
4	3:00	M W F	Gym 114
5	4:00	M W F	Gym 114
6	4:00-5:15	T Th	Gym 114
8	5:00-6:30	T Th	Gym 114
103c-1 Social Dance			
1	11:30-12:50	T Th	Gym 114
103f-1 Beginning Ballet			
1	2:00	M W F	Gym 208
104c-1 Individual and Team Activity--Basketball			
1	8:00	M W F	Arena
2	8:00	T Th S	Arena
3	8:40-9:30	M W F	Arena
4	8:40-9:30	T Th S	Arena
5	9:20-10:10	M W F	Arena
6	9:20-10:10	T Th S	Arena
7	10:00	T Th S	Arena
8	10:00	F	Arena
	11:00	S	Arena
9	12:00-1:30	T Th	Arena
10	1:00	M W F	Arena
11	1:40-2:30	M W F	Arena
12	1:00-2:30	T Th	Arena
14	2:00-3:30	T Th	Arena
104d-1 Individual and Team Activity--Bowling (Fee required)			
1	8:00	M W F	Bowling Alley (staff in winter)
2	8:00	T Th S	Bowling Alley
3	9:00	M W F	Bowling Alley (staff in winter)
4	9:00	T Th S	Bowling Alley
5	10:00	M W F	Bowling Alley
6	10:00	T Th S	Bowling Alley
7	11:00	M W F	Bowling Alley
8	11:00	T Th S	Bowling Alley
9	12:00	M W F	Bowling Alley
10	12:00-1:30	T Th	Bowling Alley
11	1:00	M W F	Bowling Alley
12	1:30-3:00	T Th	Bowling Alley
13	2:00	M W F	Bowling Alley
14	3:00	M W F	Bowling Alley
15	3:00-4:30	T Th	Bowling Alley
104r-1 Individual and Team Activity--Stunts and Tumbling			
1	12:00	M W F	Arena
2	1:00	M W F	Arena
3	2:00	M W F	Arena
104s-1 Individual and Team Activity--Gymnastics			
1	10:00	M W F	Arena
2	10:00	T Th S	Arena
3	11:00	M W F	Arena
104u-1 Individual and Team Activity--Wrestling (Fall Term meets first nine weeks)			
1	10:00	M W F	Arena
3	11:00	M W F	Arena
104w-1 Individual and Team Activity--Judo			
1	5:30-7:00 pm	M W	Arena Franklin
110b-1 Restricted Physical Education			
1	12:00	M W F	Gym 114
111a-1 Beginning Swimming			
1	1:00	M W F	Pool
4	9:00-10:50	T Th	Park Place South Pool
5	11:00-12:50	T Th	Park Place South Pool
6	1:00-2:50	T Th	Park Place South Pool
111b-1 Intermediate Swimming [111a or equivalent]			
1	1:00	M W F	Pool
2	2:00	M W F	Pool
3	2:30-3:50	T Th	Pulliam Pool
4	2:00	M W F	Pulliam Pool

112-1	Exercise for Fitness			8	9:00	M W F	Comm 120
1	12:00	M W F	Gym 207	9	11:00	M WTh	TechA 120
2	12:00	TWTh	Gym 207	10	11:00	M WTh	TechA 122
3	3:00	M W F	Gym 207	11	11:00	M W F	TechA 222
4	3:00	TWTh	Gym 207	12	11:00	MTW	TechA 308
113-1	Square Dance			13	11:00	M W F	TechA 310
1	10:00-11:15	T Th	Gym 114	14	11:00	M W	HEc 201
4	3:00	M W F	Gym 114		11:00	T	Ag 168
5	4:00	M W F	Gym 114	15	11:00	M W	HEc 206
8	5:00-6:30 pm	T Th	Gym 114		11:00	T	Ag 166
113b-1	Folk Dance			16	11:00	M W F	Comm 120
2	9:00	M W F	Gym 114	17	1:00	M W	TechA 120
113c-1	Social Dance				1:00	T	HEc 201
1	11:30-12:50	T Th	Gym 114	18	1:00	M W	TechA 122
113d-1	Beginning Contemporary Dance				1:00	T	TechA 208
1	8:00	M W F	Gym 208	19	1:00	MTW	TechA 222
2	8:00	T Th S	Gym 208	20	1:00	M W F	TechA 308
4	4:00	M W F	Gym 208	21	11:00	T Th S	Arena 121
113c-1	Intermediate Contemporary Dance			22	11:00	M W F	Arena 121
	[113d or consent of instructor]			23	2:00	M W F	Arena 121
1	9:00	TWTh	Gym 208	24	8:00	T Th S	Arena 123
2	12:00	M W F	Gym 208	25	6:00-7:25 pm	M W	Arena 123
113f-1	Beginning Ballet			26	10:00	M W F	Arena 121
1	2:00	M W F	Gym 208	27	8:00	M W F	Bailey 130
114b-1	Individual and Team Activity--Badminton			28	10:00	T Th S	Arena 121
1	8:00	M Th	Gym 207	29	8:00	M W F	Arena 119
	11:00	F		30	10:00	M W F	Arena 119
2	8:00	T F	Gym 207	31	1:00	M W F	Arena 119
	2:00	Th		32	8:00	M W F	Arena 121
3	8:00	W S	Gym 207	33	8:00	M W F	Arena 123
	11:00	F		35	12:00	M W F	Arena 121
4	9:00	WTh	Gym 207				
	2:00	W	Gym 207				
5	9:00	T F	Gym 207				
	2:00	W	Gym 207				
6	2:00	Th	Gym 207				
	9:00	W S	Gym 207				
114c-1	Individual and Team Activity--Basketball						
1	9:00	M FS	Gym 208				
2	10:00	M FS	Gym 208				
3	10:00	TWTh	Gym 208				
4	1:00	M W F	Gym 208				
114d-1	Beginning Bowling (fee required)						
1	8:00	M W F	Bowling Alley				
3	9:00	M W F	Bowling Alley				
5	10:00	TW F	Bowling Alley				
8	12:00	M W F	Bowling Alley				
9	12:00-1:10	T Th	Bowling Alley				
10	1:00	M W F	Bowling Alley				
11	1:15-2:25	T Th	Bowling Alley				
12	2:00	M W F	Bowling Alley				
13	2:30-3:40	T Th	Bowling Alley				
14	3:00	M W F	Bowling Alley				
15	3:45-4:55	T Th	Bowling Alley				
114i-1	Volleyball						
1	11:00	M W F	Gym 207				
2	12:00-1:20	T Th	Gym 208				
3	1:00-2:15	T Th	Gym 208				
114m-1	Fencing						
2	9:00-10:30	T Th	Gym 114				
3	1:00	M W F	Gym 114				
4	1:00-2:30	T Th	Gym 114				
5	2:00	M W F	Gym 114				
6	2:15-3:45	T Th	Gym 114				
7	3:30-5:00	T Th	Gym 114				
114p-1	Gymnastics and Tumbling						
1	5:00	MT W	Gym 207				
114s-1	Intermediate Bowling						
	[114d or consent of instructor]						
1	11:00	M W F	Bowling Alley				
201-3	Healthful Living--TV						
1	9:00	M W F	TechA 120				
2	9:00	M W F	TechA 122				
3	9:00	MTW	TechA 222				
4	9:00	MTW	TechA 308				
5	9:00	M W F	TechA 310				
6	9:00	M W	HEc 201				
	9:00	T	Ag 168				
7	9:00	M W F	HEc 206				

1	3:00	TWThF	Cl 12	
432-4	Problems in Federal Taxation [331]			
1	4:00	MT ThF	Cl 18	
442-4	Advanced Cost Accounting [341]			
1	9:00	M Th	Cl 12	
	9:00	T F	Cl 18	
2	11:00	MT ThF	Cl 18	
458-4	Accounting Systems [331, 341, 351b]			
1	3:00	M	Cl 12	
	3:00	W	Cl 18	
459-4	Internship Accounting			
1	To be arranged			Cl 232

A E R O S P A C E S T U D I E S (AS)

100A-0	Corps Training			
1	10:00	T	Field	
102-1	U.S. Defense Organization [101]			
1	9:00	T	Wh 113	
2	11:00	T	Wh 113	
3	2:00	T	Wh 113	
4	9:00	Th	Wh 113	
5	11:00	Th	Wh 113	
200A-0	Corps Training [100]			
1	10:00	T	Field	
202-1	Aerospace Support Forces [201]			
1	9:00	W	Wh 113	
2	11:00	W	Wh 113	
3	1:00	W	Wh 113	
4	3:00	W	Wh 113	
300-0	Corps Training			
	[General Military course or 6 weeks FTU]			
1	10:00	T	Field	
302-3	Growth and Development of Aerospace Power [301]			
1	8:00	M WTh	Wh 107	
2	10:00	M WTh	Wh 107	
3	12:00	M WTh	Wh 107	
4	2:00	M WTh	Wh 107	
340-0	Corps Training [300]			
1	10:00	T	Field	
352-3	Aerospace Leadership [351]			
1	9:00	M WTh	Wh 107	
2	11:00	M WTh	Wh 107	
3	1:00	M WTh	Wh 107	
4	3:00	M WTh	Wh 107	

A G R I C U L T U R A L I N D U S T R I E S (AGI)

204-4	Introduction to Agricultural Economics			
1	3:00	MTW	Ag 166	Herr
	3:00	F	Ag 225	
2	3:00	MTW	Ag 166	Herr
	3:00	Th	Ag 225	
3	3:00	MTW	Ag 166	Herr
	4:00	Th	Ag 225	
4	3:00	MTW	Ag 166	Herr
	9:00	S	Ag 225	
210-2	Introduction to Agricultural Education			
1	4:00	M W	Ag 214	Benton
214-2	Agricultural Drawing			
1	10:00-11:50	M Th	Ag 195	
2	1:00-2:50	M W	Ag 195	
309-5	Agricultural Education [Consent of Department]			
1	9:00-11:50	MTWThF	Ag 155	Wood
312b-10	Student Teaching in Vocational Agriculture			
	[Consent of Department]			
1	To be arranged			Wood
351-4	Farm Financial Management [350]			
1	2:00	MTW	Ag 225	Herr
	1:00-2:50	Th	Ag 225	
352-3	Agricultural Prices [354]			
1	4:00	TW F	Ag 225	Haag
373-5	Farm Power and Machinery [GSD 108a]			
1	11:00	MT Th	Ag 225	Paterson
	1:00-2:50	W F	T 29	
2	11:00	MT Th	Ag 225	Paterson
	10:00-11:50	W F	T 29	
3	11:00	MT Th	Ag 225	Paterson
	8:00-9:50	W F	T 29	
377-4	Farm Structure			
1	4:00	M Th	Ag 155	
	3:00-4:50	T F	Ag 155	
381-1	Agricultural Seminar [Senior standing]			

1	4:00	T	Ag 214	Wills
390-1	to 3 Special Studies in Agricultural Industries			
	[Consent of department]			
1	To be arranged			
417-4	Agricultural Development in Emerging Countries			
	[GSB 211a]			
1	8:00	MTWTh	Ag 225	Keeper
450-4	Advanced Farm Management [350]			
1	1:00	TW F	Ag 225	Osburn
	12:00-1:50	M	Ag 225	
456d-2	Agricultural Marketing Problems and Practices			
	(Dairy and Poultry) [354]			
1	12:00	W F	Ag 225	Solverson
520-1	to 6 Readings			
1	To be arranged			
554-4	Advanced Agricultural Marketing			
1	9:00	MTWTh	Ag 225	Wills
575-1	to 6 Research			
1	To be arranged			
581-1	to 6 Seminar			
1	8:00	F	Ag 155	
599-2	to 9 Thesis			
1	To be arranged			

A N I M A L I N D U S T R I E S (ANI)

105-4	Animal Husbandry			
1	11:00	M WTh	Ag 168	Miller
	10:00-11:50	T	Ag 120	
2	11:00	M WTh	Ag 168	Miller
	1:00-2:50	T	Ag 114	
125-4	Elementary Poultry Production			
1	8:00	TWTh	Ag 214	Goodman
	8:00-9:50	F	Ag 132	
2	8:00	TWTh	Ag 214	Goodman
	10:00-11:50	F	Ag 132	
231-4	Dairy Husbandry			
1	2:00	M WTh	Ag 116	Olson
	1:00-2:50	F	Ag 114	Olson
311a-2	or 3 Evaluation and Selection of Farm Animals			
	and Animal Products [105 or 125]			
1	3:00-4:50	M W	Ag 114	Miller
	4:00	Th	Ag 114	Goodman
				Miller
315-4	Feeds and Feeding [105 or 125 or 231]			
1	9:00	T ThF	Ag 214	Reed
	9:00-10:50	M	Ag 120	
2	9:00	T ThF	Ag 214	Reed
	1:00-2:50	M	Ag 114	
3	9:00	T ThF	Ag 214	Reed
	9:00-10:50	W	Ag 120	
316-4	Insect Pests and Their Control [GSA 201c]			
1	2:00	M W	LS 205	Downey
	1:00-2:50	T Th	LS 213	
2	2:00	M W	LS 205	Downey
	3:00-4:50	T Th	LS 213	
381-1	Agriculture Seminar [Junior and senior only]			
1	4:00	T	Ag 214	Wills
390-1	to 3 Special Studies in Animal Industries			
	[Junior and senior only]			
1	To be arranged			
415a-4	Animal Nutrition [315]			
1	3:00	MT Th	Ag 214	Hinners
	2:00-3:50	W	Ag 120	
2	3:00	MT Th	Ag 214	Hinners
	2:00-3:50	F	Ag 120	
431-4	Reproduction and Artificial Insemination of Farm			
	Animals [GSA 201c and 105 or 231]			
1	11:00	MT F	Ag 116	Olson
	10:00-11:50	W	Ag 114	
2	11:00	MT F	Ag 116	Olson
	10:00-11:50	Th	Ag 114	
432-3	Quantitative Inheritance of Farm Animals [332]			
1	12:00	MT Th	Ag 116	Goodman
456d-2	Agriculture Marketing Problems and Practices			
	(Dairy and Poultry)			
1	12:00	W F	Ag 225	Solverson
465-5	Swine Production [105 and 315]			
1	8:00	M WThF	Ag 116	Burnside
	8:00-9:50	T	Ag 120	
480-4	Sheep Production [105 and 315]			



1	1:00	MTW	Ag 116	Kammlade
	1:00-2:50	Th	Ag 114	
487-4	Commercial Livestock Feeding			
1	9:00	WThF	Ag 116	Kammlade
	9:00-10:50	M	Ag 114	
505b-4	Research Methods in Agricultural Science			
1	1:00-2:50	MT	Ag 120	Burnside
	1:00	W	Ag 120	
520-1	to 6 Readings in Animal Industries			
1	To be arranged			
525-4	Advanced Poultry Production			
1	7:35-9:15 pm	M W	Ag 132	Hinners
575-1	to 6 Individual Research			
1	To be arranged			
579-4	Animal Behavior [Consent of instructor]			
1	12:00	T Th	LS 204	Waring
	9:00-12:50	M	LS 204	
581-1	Seminar			
1	4:00	T	Ag 114	
599-1	to 9 Thesis			
1	To be arranged			
ANTHROPOLOGY (ANTH)				
304-3	The Origins of Civilization			
1	1:00	M W F	HEc 102	Riley
305b-3	Peoples and Cultures of the World I: Asia			
1	9:00	M F	HEc 102	Guemple
	9:00	W	HEc 203	
408a-4	History of Anthropological Thought			
1	9:00-10:50	T Th	HEc 102	Bausch
483-3	to 18 Individual Study in Anthropology			
1	To be arranged			
503b-3	Pro-seminar in Archaeology			
1	2:00-4:30	M	HEc 102	Weigand
505a-3	Pro-seminar in Linguistics			
1	7:30-10:00 pm	M	HEc 102	Maring
507b-3	Pro-seminar in Social Anthropology			
1	2:00-4:30	W	HEc 102	Handler
509b-3	Pro-seminar in Ethnology			
1	7:30-10:00 pm	T	HEc 102	Altschuler
511-3	Seminar in Meso-American Archaeology			
1	10:00-12:30	M	HEc 102	Rands
512-3	Seminar in Old World Archaeology			
1	7:30-10:00 pm	Th	HEc 102	Taylor
523-3	Seminar in the Anthropology of Africa			
1	10:00-12:30	F	HEc 102	Bausch
560-3	Seminar in Comparative Social Organization			
1	3:00-5:30	Th	HEc 102	Wagner
567-3	Seminar in Anthropological Theory and Method			
1	2:00-4:30	T	HEc 102	Muller
570-3	Seminar in Art and Technology			
1	11:00-12:30	T Th	HEc 102	Dark
582-3	to 27 Problems in Archaeology			
1	To be arranged			
584-3	to 27 Problems in Cultural Anthropology			
1	To be arranged			
585-3	to 27 Readings in Anthropology			
1	To be arranged			
595b-3	Field Methods in Ethnology			
1	2:00-4:30	F	HEc 102	Maring
597-3	to 27 Field Work in Anthropology			
1	To be arranged			
599-3	to 9 Thesis			
1	To be arranged			
600-1	to 18 Dissertation			
1	To be arranged			
APPLIED SCIENCE (APS)				
300-5	University Physics IV [Phys 211c]			
1	3:00	TW F	P 309	
	3:00-4:50	Th	P 301	
	3:00-4:50	M	P 302	
2	3:00	TW F	P 309	
	3:00-4:50	Th	P 301	
	3:00-4:50	W	P 302	
401b-4	X-Ray Crystallography			
1	4:00	M W	TechB 141	
	3:00-4:50	F	TechB 126	
418-3	Digital Computers in Research [Engr 222 or Math 225]			
1	1:00	T F	TechA 422	
	4:00	W	TechA 422	

422-3	Programming Systems [Engr 222 or Math 225]			
1	1:00	M	TechA 322	
	1:00	W	Ag 220	
	1:00	Th	TechA 320	
430-2	to 8 Special Problems in Industry and Technology [Consent of coordinator]			
1	To be arranged			
501b-4	Materials Science			
1	8:00	MTW F	TechB 141	
503b-4	Physical Properties of Crystalline Materials			
1	1:00	MTW F	TechB 141	
504b-4	X-Ray Diffraction and the Solid State			
1	11:00	M W	TechB 141	
	10:00	Th	TechB 126	
521a-3	Design of Automatic Programming Language Processors [421]			
1	To be arranged			
570-2	to 6 Special Investigations [Consent of coordinator]			
1	To be arranged			
580-1	to 3 Seminar [Consent of coordinator]			
1	To be arranged			
599-1	to 9 Thesis [Consent of coordinator]			
1	To be arranged			
ART (ART)				
100-5	Basic Studio			
1	8:00-9:50	MTW F	A 112, 106	Tatro
	8:00-9:50	Th	A 202	
2	11:00-12:50	MTW F	A 112, 106	Harris
	11:00-12:50	Th	A 202	
3	1:00-2:50	MTW F	A 112	Gluhman
	1:00-2:50	Th	A 202	Gluhman
4	3:00-4:50	MTW F	A 112	Gluhman
	3:00-4:50	Th	A 202	Gluhman
5	8:00-10:00	MTW F	A 112	Tatro
	1:00-2:50	Th	A 202	Tatro
6	1:00-2:50	MTW F	A 106	Boysen
	1:00-2:50	Th	A 202	Boysen
7	3:00-4:50	MTW F	A 106	Boysen
	1:00-2:50	Th	A 202	Boysen
8	11:00-12:50	MTWThF	A 202	Lyman
200-4	Studio Disciplines [Art 100]			
1	8:00-9:50	MTW F	A 6	Sullivan
2	1:00-2:50	MTW F	A 202	Bernstein
3	3:00-4:50	MTW F	A 202	Breland
4	8:00-9:50	MTW F	A 202	Sullivan
225b-3	Introduction to Art History			
1	11:00	M W F	M 209	Lyman
2	1:00	M W F	Comm 122	Lyman
300-4	Art Education for Elementary Teachers			
1	9:00	T Th	Wham 308	
	10:00-11:50	T Th	PullI 105	Ferris
2	9:00	T Th	Wham 308	
	1:00-2:50	T Th	PullI 105	
4	9:00	T Th	Wham 308	
	6:00-7:50 pm	M W	PullI 105	Barquist
				Ferris
5	3:00-5:50	T Th	PullI 105	Lawson
302-4	to 12 Pottery			
1	8:00-10:50	T Th	A 5	Vergette
2	2:00-4:50	T Th	A 5	Vergette
306-3	Materials and Techniques in Art Education			
1	10:00-11:50	M W	PullI 105	Barquist
320-2	to 12 Oil Painting Techniques			
1	6:00-8:00 pm	T Th		
325-2	to 15 Studio			
1	10:00-11:50	M W F	A 210	Bernstein
332-4	to 12 Jewelry and Silversmithing			
1	8:00-9:50	M W F	A 11	Kington
2	11:00-12:50	M W F	A 11	Kington
341-2	to 4 Drawing [100 or 200 or consent of instructor]			
1	7:00-9:00	M W	A 202	Fink
	10:00-11:50	M	A 202	Fink
358-4	Prints [100 or 200 or consent of instructor]			
1	6:00-9:00 pm	M W	A 16	Fink
	11:00	M	A 202	Fink
365-4	Art Education in the Secondary Schools			
1	3:00-5:50	M W	PullI 105	Barquist
				Ferris
385-2	to 12 Weaving			

1	1:00-3:50	T Th	801 South Washington Ginsberg	301-3	Morphology of Vascular Plants [GSA 201b]		
2	6:00-9:00 pm	T Th	801 South Washington Ginsberg	1	1:00	M Th	LS 323
393-4	to 12 Sculpture			1	1:00-2:50	T	LS 307
	[100 or 200 or consent of instructor]			2	1:00	M Th	LS 323
1	1:00-3:50	T Th	A 6 Sullivan		1:00-2:50	W	LS 307
406-2	to 12 Studio in Painting [200, 325]			3	1:00	M Th	LS 323
1	8:00-11:50	M W F	To be arranged Harris, Breland, Bernstein		1:00-2:50	F	LS 307
416-2	to 12 Studio in Prints [358]			320-5	Elements of Plant Physiology [GSA 201b]		
1	6:00-9:00 pm	M W	A 16 Fink	1	8:00	M W F	LS 323 Schmid
	10:00-11:50	F	A 211 Fink		8:00-9:50	T Th	LS 311 Schmid
426-2	to 12 Studio Pottery [302]			2	8:00	M W F	LS 323 Schmid
1	9:00-11:50	T Th	A 5 Vergette		10:00-11:50	T Th	LS 311 Schmid
436-2	to 12 Studio in Metal Construction [332]			406-5	Industrial Mycology [Bot 405 or consent of dept]		
1	1:00-3:50	M W F	A 11 Kington	1	11:00	M W F	LS 323 Gray
446-2	to 12 Studio in Weaving				10:00-11:50	T Th	LS 315 Gray
1	6:00-9:00 pm	T Th	801 South Washington Ginsberg	T408-4	Radioisotopes, Principles and Practices [Biochemistry, Physiology or consent of department]		
447b-3	The Art of Ancient Greece			1	8:00	MTW	AG 168 Tweedy
1	9:00	M W F	Comm 122 Lyman		8:00-9:50	F	AG 167 Tweedy
448b-3	Early Medieval and Romanesque Art			411-4	Bryophytes and Pteridophytes [Bot 300, 301]		
1	10:00-11:50	T	L 131 Lyman	1	8:00	T Th	LS 323 Kaeiser
	10:00	Th	Comm 112 Lyman		8:00-9:50	M W	LS 315 Kaeiser
449b-3	Baroque Art in Europe			414-5	Paleobotany [Bot 400, 301, or consent of dept]		
1	9:00	T Th S	L 171 Gluhman	1	10:00-11:50	M W F	LS 315 Matten
466-2	to 12 Studio in Art Education				10:00	T Th	LS 323 Matten
1	12:00	M W F	PullI 105 Abrahamson	450-3	Plant Geography [Consent of dept]		
482e-3	Seminar in Oriental Art [12 hrs]			1	3:00	MT Th	LS 323 Ugent
1	2:00-3:50	T	Comm 122 Lyman	456-5	Plant Pathology [Consent of department]		
	2:00	Th	Comm 122 Lyman	1	10:00	M W F	LS 323 Pappelis
483a-3	Research in Art History--Ancient Art				10:00-11:50	T Th	LS 307 Pappelis
1	To be arranged			2	10:00	M W F	LS 323 Pappelis
483b-3	Research in Art History--Medieval Art				11:00-12:50	M W	LS 307 Pappelis
1	To be arranged			522-5	Advanced Microtechnique [GSA 201b]		
483c-3	Research in Art History--Renaissance Art			1	3:00	M W F	811 S. Elizabeth Olah
1	To be arranged				3:00-4:50	T Th	811 S. Elizabeth Olah
483d-3	Research in Art History--Modern Art			542-3	Biosystematics [Bot 315, Zool 401 or consent of dept]		
1	To be arranged			1	10:00	T Th	Ag 150 Eshbaugh
483e-3	Research in Art History--Oriental Art				10:00	F	Ag 224
1	To be arranged			570-2	to 5 Readings [Botany major]		
493-2	to 12 Advanced Sculpture [Consent]			1	To be arranged		
1	To be arranged		Sullivan	580-1	Seminar [Consent of department, Pathology Student, Taxonomy student]		
502-2	to 12 Seminar in Sculpture [443, 405 consent]			1	3:00	W	Matten
	To be arranged		A 6 Sullivan	2	To be arranged		Pappelis
504-2	to 12 Research in Sculpture [443, 405 consent]			3	To be arranged		Mohlenbrock
1	To be arranged		A 6 Sullivan	590-2	Introduction to Research [Pathology student, Taxonomy student, Botany major]		
506-2	to 12 Research in Painting [401, 406 or consent]			1	To be arranged		Pappelis
1	8:00-11:50	M W F	To be arranged Breland, Harris, Bernstein	2	To be arranged		Mohlenbrock
516-2	to 12 Research in Prints [410, 416 or consent]			3	To be arranged		
1	10:00-11:50	F	A 16 Fink	591-3	to 9 Research [Consent of advisory committee]		
526-2	to 12 Research in Pottery [420 or 426]			1	To be arranged		
1	1:00-3:50	M W	A 5 Vergette	599-3	to 9 Thesis [Consent of advisory committee]		
536-2	to 12 Research in Metal Construction [430 or 436]			1	To be arranged		
1	1:00-3:50	M W F	A 11 Kington	600-1	to 18 Dissertation [Consent of advisory committee]		
546-2	to 12 Research in Weaving [440 or 446]			1	To be arranged		
1	1:00-3:50	T Th	801 South Washington Ginsberg	B U S I N E S S A D M I N I S T R A T I O N (BUS AD)			
560-2	to 12 Seminar in Art Education			501-4	Quantitative Methods for Decision Making [MBA student or consent of instructor]		
1	To be arranged		PullI 105 Abrahamson	1	1:00	M WThF	M 301 N Siemens
571-2	to 5 Readings in Art History			502-4	Business and Society [MBA student or consent of instructor]		
1	To be arranged			1	8:00-9:50	F	Cl 326 W. Greenwood
573-3	to 12 Problems in Art History				8:00-9:50	W	TechA 210
1	To be arranged			510-4	Managerial Accounting and Control [MBA student or consent of instructor]		
599-5	to 9 Thesis			1	11:00	MTW F	Cl 25 Wright
1	To be arranged			511-4	Accounting Theory [MBA student or consent of instructor]		
B O T A N Y (BOT)				1	5:45-7:25 pm	T Th	Cl 25 Schmidlein
300-3	Morphology of Non-Vascular Plants [GSA 201b]			512-4	Advanced Auditing [MBA student or consent of instructor]		
1	9:00	M	F LS 323	1	10:00-11:50	T	Comm 120 Page
	8:00-9:50	T	LS 307		10:00-11:50	F	Wham 301B
2	9:00	M	F LS 323	530-4	Financial Management [MBA student or consent of instructor]		
	8:00-9:50	W	LS 307	1	8:00-9:50	T Th	Ag 170 Winn
3	9:00	M	F LS 323				
	8:00-9:50	Th	LS 307				

532-4	Financial Institutions and Markets	10	6:00-7:25 pm	T Th	Browne	
1	[MBA student or consent of instructor]		1:00	M	P 204	
	10:00 MT ThF Cl 25 Fenstermaker		1:00-2:50	T Th	P 213	
543-4	Personnel Management	11	6:00-7:25 pm	T Th	Browne	
1	[MBA student or consent of instructor]		1:00	M	P 204	
	2:00 TWThF Ag 218 Patrick		2:00-3:50	T Th	P 206	
550-4	Marketing Management	111c-5	General Inorganic Chemistry [111b]			
1	[MBA student or consent of instructor]	1	9:00	T Th	Browne	Van Lente
	3:00-4:50 M W Cl 326 C. Hindersman		1:00	T	P 204	
553-4	Transportation Management		8:00-9:50	M W F	P 200	
1	[MBA student or consent of instructor]	2	9:00	T Th	Browne	Van Lente
	5:45-7:25 pm T Th Cl 326 M. Hansen		1:00	T	P 204	
554-4	Marketing Theory		10:00-11:50	T Th S	P 200	
1	[MBA student or consent of instructor]	3	9:00	T Th	Browne	Van Lente
	3:00-4:50 F Cl 326 C. Andersen		1:00	Th	P 204	
	3:00-4:50 T Ag 170		4:00-5:50	M W F	P 200	
590-4	Independent Study	4	9:00	T Th	Browne	Van Lente
1	[MBA student or consent of instructor]		1:00	Th	P 204	
	To be arranged Hindersman		8:00-9:50	M W F	P 213	
599-8	Thesis	5	8:00	T Th	P 204	
1	To be arranged Hindersman		9:00	Th	P 204	
			10:00-11:50	T Th S	P 206	
C H E M I S T R Y (CHEM)						
110-4	General and Inorganic Chemistry	6	10:00	T Th	Browne	
	[GSA 101a or equivalent]		2:00	T	P 204	
1	8:00 M W F Browne Brown		10:00-11:50	M W F	P 200	
	3:00-5:50 T P 213	7	10:00	T Th	Browne	
	3:00 W P 204		2:00	T	P 204	
2	3:00-5:50 T P 213 Brown		12:00-1:50	M W F	P 200	
	8:00 M W F Browne	8	10:00	T Th	Browne	
	3:00 W P 204		2:00	Th	P 204	
3	3:00-5:50 T P 213 Brown		8:00-9:50	T Th S	P 213	
	8:00 M W F Browne	9	10:00	T Th	Browne	
	3:00 W P 204		2:00	Th	P 204	
4	3:00-5:50 T P 213 Brown		12:00-1:50	M W F	P 213	
	8:00 M W F Browne	10	8:00	T Th	P 204	
	3:00 W P 204		9:00	Th	P 204	
5	3:00-5:50 Th Browne Brown		8:00-9:50	M W F	P 206	
	3:00 W P 204	11	11:00	T Th	Browne	Neckers
	6:00-8:50 M P 213		1:00	W	P 204	
6	8:00 M W F Browne Brown		8:00-9:50	T Th S	P 200	
	3:00 Th P 204	13	11:00	T Th	Browne	Neckers
	2:00-4:50 F P 213		1:00	W	P 204	
7	8:00 M W F Browne Brown		10:00-11:50	M W F	P 213	
	3:00 Th P 204	14	11:00	T Th	Browne	Neckers
	6:00-8:50 T P 213		3:00	T	P 204	
8	8:00 M W F Browne Brown		6:00-9:00 pm	M W	P 200	
	3:00 Th P 204	16	8:00	T Th	P 204	
	6:00-8:50 M P 213		11:00	Th	P 204	
9	8:00 M W F Browne Brown		6:00-8:50 pm	T Th	P 200	
	3:00 Th P 204	17	8:00	T Th	P 204	
	6:00-8:50 pm T P 213		11:00	Th	P 204	
10	8:00 M W F Browne Brown		12:00-1:50	M W F	P 206	
	3:00 Th P 204	235-5	General Quantitative Analysis [11c and logarithms]			
	2:00-4:50 F P 213	1	2:00	M W F	P 204	
			1:00-3:50	T Th	P 103	
111b-5	General Inorganic Chemistry [111a or 1 year high school chemistry]	305b-5	Organic Chemistry, Preprofessional			
1	9:00 M W F Browne Neckers	1	11:00	M W F	Browne	Hadley
	3:00 M P 204		8:00-10:50	M W	P 205	
	4:00-5:50 M W P 206	2	11:00	M W F	Browne	Hadley
2	9:00 M W F Browne Neckers		3:00-5:50 pm	M W	P 205	Hadley
	3:00 M P 204	3	11:00	M W F	Browne	Hadley
	2:00-3:50 T Th P 200		3:00-5:50 pm	T Th	P 205	
3	9:00 M W F Browne Neckers	4	11:00	M W F	Browne	Hadley
	3:00 M P 204		6:00-8:50 pm	M W	P 205	
	4:00-5:50 T Th P 200	5	11:00	M W F	Browne	Hadley
4	9:00 M W F Browne Neckers		6:00-8:50 pm	T Th	P 205	
	3:00 M P 204	341b-5	Organic Chemistry [341a]			
	10:00-11:50 Th S P 213	1	8:00	M W F	P 204	
5	9:00 M W F Browne Neckers		8:00-10:50	T Th	P 205	
	3:00 M P 204	2	8:00	M W F	P 204	
	8:00-9:50 T Th P 206		12:00-2:50	M W	P 205	
7	6:00-7:25 pm T Th Browne Neckers	3	8:00	M W F	P 204	
	1:00 M P 204		12:00-2:50	T Th	P 205	
	12:00-1:50 T Th P 206	375-0	to 1 Senior Seminar [Senior standing]			
8	6:00-7:25 pm T Th Browne	1	To be arranged			
	1:00 M P 204	412-3	Inorganic Preparations [411]			
	2:00-3:50 M W P 213	1	2:00	T	P 111	
9	6:00-7:25 pm T Th Browne		Lab to be arranged			
	1:00 M P 204	432a-4	Instrumental Analytical Measurements			
	12:00-1:50 T Th P 200		[461b or concurrent enrollment]			



1 6:00-7:35 pm T Th P 111  
1:00-5:50 W P 103

438-3 Review of Analytical Chemistry  
1 9:00 M W F P 111

446-4 Qualitative Organic Analysis  
1 8:00 T Th P 111  
8:00-10:50 M W P 205 West

451b-3 to 4 Biochemistry  
1 8:00 M W F P 111  
8:00-10:50 T P 205 West  
2 8:00 M W F P 111  
2:00-4:50 W P 205 West

461b-4 Physical Chemistry  
1 11:00 M W F P 111  
1:00-3:50 T P 104  
2 11:00 M W F P 111 Van Lente  
1:00-3:50 Th P 104

472b-4 X-Ray Crystallography [472a]  
1 4:00 M W TechB 109  
3:00-4:50 F TechB 109

496a-2 to 4 Chemical Problems, Analysis [Consent of Dept]  
1 To be arranged P 112

496b-2 to 4 Chemical Problems, Biochemistry  
[Consent of Department]  
1 To be arranged P 112

496c-2 to 4 Chemical Problems, Inorganic  
[Consent of department]  
1 To be arranged P 112

496d-2 to 4 Chemical Problems, Organic [Consent of dept]  
1 To be arranged P 112

496e-2 to 4 Chemical Problems, Physical [Consent of dept]  
1 To be arranged P 112

511a-3 Advanced Inorganic Chemistry [411]  
1 1:00 M W F P 111

531-3 Theory of Quantitative Analysis  
1 9:00 T Th S P 111

539-3 Advanced Topics in Analytical Chemistry  
[Consent of dept]  
1 To be arranged

541-3 Advanced Organic Chemistry [444]  
1 9:00 M W F P 204

547-3 Advanced Laboratory Preparation in  
Organic Chemistry [446]  
1 To be arranged P 112

549-3 Advanced Topics Organic Chemistry  
[Consent of department]  
1 To be arranged

553-3 Advanced Biochemistry [451c]  
1 10:00 M W F P 204

559-2 to 6 Advanced Topics in Biochemistry  
[Consent of department]  
1 To be arranged

562-3 Atomic and Molecular Structure [561]  
1 3:00 M W F P 111

594a-3 Special Readings in Chemistry--Analytical  
[Consent of department]  
1 To be arranged

594b-3 Special Readings in Chemistry--Biochemistry  
[Consent of department]  
1 To be arranged

594c-3 Special Readings in Chemistry--Inorganic  
[Consent of department]  
1 To be arranged

594d-3 Special Readings in Chemistry [Consent of dept]  
1 To be arranged

594e-3 Special Readings in Chemistry--Physical  
[Consent of department]  
1 To be arranged

595a-0 to 1 Advanced Seminar in Chemistry--Analytical  
[Consent of department]  
1 4:00 M P 204

595b-0 to 1 Advanced Seminar in Biochemistry  
[Consent of department]  
1 4:00 T P 204

595c-0 to 1 Advanced Seminar in Inorganic  
[Consent of department]  
1 4:00 W P 204

595d-0 to 1 Advanced Seminar in Organic  
[Consent of department]  
1 4:00 F P 204

595e-0 to 1 Advanced Seminar in Physical  
[Consent of department]  
1 4:00 Th P 204

596a-3 to 9 Advanced Problems--Analytical  
[Consent of department]  
1 To be arranged

596b-3 to 9 Advanced Chemical Problems--Biochemistry  
[Consent of department]  
1 To be arranged

596c-3 to 9 Advanced Chemical Problems--Inorganic  
[Consent of department]  
1 To be arranged

596d-3 to 9 Advanced Chemical Problems--Organic  
[Consent of department]  
1 To be arranged

596e-3 to 9 Advanced Chemical Problems--Physical  
[Consent of department]  
1 To be arranged

597a-3 to 9 Research and Thesis--Analytical  
[Consent of department]  
1 To be arranged P 107

597b-3 to 9 Research and Thesis--Biochemical  
[Consent of department]  
1 To be arranged P 107

597c-3 to 9 Research and Thesis--Inorganic  
[Consent of department]  
1 To be arranged P 107

597d-3 to 9 Research and Thesis--Organic  
[Consent of department]  
1 To be arranged P 107

597e-3 to 9 Research and Thesis--Physical  
[Consent of department]  
1 To be arranged P 107

598a-3 to 9 Research--Doctoral (Analytical)  
[Consent of department]  
1 To be arranged

598b-3 to 9 Research--Doctoral (Biochemistry)  
[Consent of department]  
1 To be arranged

598c-3 to 9 Research--Doctoral (Inorganic)  
[Consent of department]  
1 To be arranged

598d-3 to 9 Research--Doctoral (Organic)  
[Consent of department]  
1 To be arranged

598e-3 to 9 Research--Doctoral (Physical)  
[Consent of department]  
1 To be arranged

600a-3 to 12 Dissertation--Analytical [Consent of dept]  
1 To be arranged

600b-3 to 12 Dissertation--Biochemistry  
[Consent of department]  
1 To be arranged

600c-3 to 12 Dissertation--Inorganic  
[Consent of department]  
1 To be arranged

600d-3 to 12 Dissertation--Organic  
[Consent of department]  
1 To be arranged

600e-3 to 12 Dissertation--Physical [Consent of dept]  
1 To be arranged

# CLOTHING AND TEXTILES (C & T)

127-4 Clothing Selection and Construction  
1 10:00 M Th L 131 Ridley  
10:00-11:50 T F HEc 310  
2 10:00 M Th L 131 Ridley  
10:00-11:50 W S HEc 310  
3 10:00 M Th L 131 Staff  
1:00-2:50 T Th HEc 310  
4 10:00 M Th L 131 Staff  
3:00-4:50 M W HEc 304

131-3 Applied Design  
1 12:00 M W HEc 140b Slack  
3:00-4:50 Th HEc 304 Harrington  
2 12:00 M W HEc 140b Slack  
11:00-12:50 Th HEc 304  
3 12:00 M W HEc 140b Slack  
11:00-12:50 F HEc 304  
4 12:00 M W HEc 140b Slack  
2:00-3:50 T HEc 304

5	12:00	M W	HEc 140b	Slack	366-5	Product-Shelter Design		
	8:00-9:50	W	HEc 304	Harrington		[12 hrs of 215 or consent of department]		
35-3	Textiles				1	1:00-4:50	MT	T125
1	9:00	T Th	HEc 140b			1:00-2:50	W	T125
	8:00-9:50	M	HEc 301	Padgett	2	1:00-4:50	MT	T129
2	9:00	T Th	HEc 140b	Padgett		1:00-2:50	W	T129
	8:00-9:50	W	HEc 301		375-5	Visual Design		
3	9:00	T Th	HEc 140b			[12 hrs of 275 or consent of department]		
	8:00-9:50	F	HEc 301		1	1:00-4:50	ThF	T125
33-3	Pattern Designing and Clothing Construction					3:00-4:50	W	T125
	[127, 131]				2	1:00-4:50	ThF	T129
1	1:00-2:50	M W	HEc 310	Ridley		3:00-4:50	W	T129
2	3:00-4:50	T Th	HEc 310	Ridley	400-2	Materials and Basic Techniques		
32-3	Advanced Textiles					[6 hrs of 300 or consent of department]		
	[135, Chem 101b, 101c, or consent of instructor]				1	6:00-9:00 pm	Th	T126
1	3:00	M F	HEc 301	Padgett	2	6:00-9:00 pm	F	T129
	3:00-4:50	W	HEc 301		465f-5	Research in Product-Shelter		
327-3	Home Furnishings and Interiors					[15 hrs of 366 or consent of department]		
	[131, or consent of instructor]				1	1:00-4:50	MT	T126
1	1:00	T Th	HEc 140b	Stewart		1:00-2:50	W	T126
	12:00-1:50	M	HEc 304		2	1:00-4:50	MT	T126
2	1:00	T Th	HEc 140b	Staff		1:00-2:50	W	T126
	1:00-2:50	W	HEc 304		465g-5	Research in Visual Design		
3	1:00	T Th	HEc 140b	Staff		[15 hrs of 375 or consent of department]		
	1:00-2:50	F	HEc 304		1	1:00-4:50	ThF	T126
329-3	Fashion					3:00-4:50	W	T126
1	11:00	M W F	HEc 101		2	1:00-4:50	ThF	T126
331-3	Applied Design [131 or consent of instructor]					3:00-4:50	W	T126
1	8:00	M Th	HEc 303	Phillips	490f-4	Studio in Product-Shelter Design [Consent of dept]		
	8:00-9:50	T	HEc 304		1	9:00-11:50	M Th	T128
2	8:00	M Th	HEc 303	Phillips	490g-4	Studio in Visual Design [Consent of department]		
	8:00-9:50	F	HEc 304		1	9:00-11:50	M Th	T128
334-3	Costume Design [127, 131]				520-4	Educational Tool Systems [Consent of department]		
1	9:00	M WTh	HEc 310	Berry	1	To be arranged		
	8:00	W	HEc 310		T525-4	to 8 Behavioral Technology [Consent of department]		
380-4	Furniture and Interiors				1	To be arranged		
1	1:00	TWThF	HEc 303	Stewart	T526-4	Design Education--Principles and Practice		
391a-5	Advanced Interior Design					[Consent of department]		
	[390 or consent of instructor]				1	To be arranged		
1	3:00-4:50	W F	HEc 303	Foote	530-4	Studies in the Industrial Process [Consent of dept]		
	3:00-4:50	M	HEc 302		1	To be arranged		
2	3:00-4:50	W F	HEc 303	Foote	535-4	Research in Product Design [Consent of department]		
	3:00-4:50	T	HEc 302		1	To be arranged		
394-4	Professional Practice				540-4	Studies in Communications Design [Consent of dept]		
	[390 or consent of instructor]				1	To be arranged		
1	11:00	MT ThF	HEc 303	Stewart	545-4	Research in Communications Design [Consent of dept]		
382-4	Foundation of Fashion				1	To be arranged		
1	6:30-9:00 pm	W	HEc 310	Berry	550-4	to 10 Field Study in Design [Consent of dept]		
399-5	to 9 Thesis [Consent of department chairman]				1	To be arranged		
1	To be arranged			Berry	560-4	Environmental Control [Consent of department]		
				Padgett	1	To be arranged		
				Phillips	T566-4	Special Projects in Architecture and Planning		
						[Consent of department]		
					1	To be arranged		
Home Economics Honors Courses (HEc)					599-3	to 9 Thesis [Consent of department]		
387-2	to 4 Special Problems--Honors [Consent of dept]				1	To be arranged		
1	To be arranged							
388-2	to 4 Research and Investigation--Honors							
1	To be arranged							
D E S I G N (DES)					E C O N O M I C S (ECON)			
100-5	Design Fundamentals				214-3	Economics (Macro) [GSB 211a]		
1	1:00-3:50	M Th	T125		1	9:00	T Th	Wham 302
	2:00-3:50	W	T125			9:00	M	L 221
2	1:00-3:50	T F	T125		2	11:00	M F	L 121
	2:00-3:50	W	T125			11:00	W	Ag 214
3	9:00-11:50	M Th	T125			11:00	F	L 201
	2:00-3:50	W	T125		3	2:00	MT Th	L 101
200-2	Materials and Basic Techniques				4	4:00	ThF	L 121
	[15 hrs of 100 or consent of dept]					4:00	T	L 201
1	6:00-9:00 pm	M	T129	Pratt	215-3	Economics (Micro) [GSB 211a]		
215-4	Basic Product-Shelter Design				1	8:00	M W F	L 121
	[15 hrs of 100 or consent of dept]				2	9:00	M W F	Ag 154
1	1:00-3:50	M Th	T129	Pratt	3	4:00	M W F	Ag 154
	1:00-2:50	W	T129	Pratt	4	7:35-9:00 pm	M W	L 201
275-4	Basic Visual Design				301-1	to 6 Economic Readings [Consent of chairman]		
	[15 hrs of 100 or consent of department]				1	To be arranged		Layer
1	1:00-3:50	T F	T129	Kula	308-4	Economic and Business Statistics, I [GSD 110]		
	3:00-4:50	W	T129	Kula	1	2:00	MTWThF	Cl 25
300-2	Materials and Basic Techniques [6 hrs of 200]				310-4	Labor Problems [214 and 215]		
1	6:00-9:00 pm	T	T125	Kula	1	8:00	TWThF	HEc 203
345-4	Design Studio [consent of department]				315-4	Money and Banking, I [214]		Kreider
1	9:00-11:50 pm	T F	T129		1	9:00	MT ThF	M 201
								Brucker

2	2:00	MTWTh	M 201	Hollenhorst	500-4	Research Methods		
330-4	Public Finance, I [214 or GSB 211c]					[Guid 422a or b or consent of instructor]		
1	12:00	MTW F	M 201	Russell	1	6:30-9:00 pm M	Wham 206	Bach
411-4	Collective Bargaining and Dispute Settlement [310]				2	4:00-6:30 pm Th	Wham 206	
1	1:00	MTWTh	Cl 25	Edelman	501b-4	Seminar in Educational Administration [501a]		
416-4	Money and Banking, II [315]				1	6:30-9:00 pm M	Wham 319	Ewing
1	11:00	F	Cl 326	Brucker	502s-4	Seminar in Comparative Education: Soviet Russia		
	11:00	T Th	HEc 118		1	6:30-9:00 pm W	Wham 312	Counts
	11:00	M	LS 205		503-4	Seminar in Philosophy of Education		
429-4	International Economics [214 and 215]					[Consent of instructor]		
1	12:00	MT ThF	Cl 326	Wells	1	9:00-12:00 F	Wham 328	
430-4	Regional Economy [214 and 215]				504-4	Seminar in History of European Education		
1	8:00	TWThF	Wham 210	Ellis	1	6:30-9:00 pm M	Wham 203	McKenzie
431-3	Public Finance, II [330 or consent of instructor]				507b-4	Twentieth Century and Education		
1	6:00-7:25 pm W		Cl 326	Fryman	1	6:30-9:00 pm Th	Wham 203	Bracewell
	6:00-7:25 pm M		Ag 174					Counts
440-4	Intermed, Micro Theory [215]				511a-4	Internship Practicum [Consent of dept chairman]		
1	9:00	TWThF	M 210	Fryman	1	To be arranged		
2	3:00	MT ThF	M 201	Allen	511b-4	Internship Practicum [Consent of dept chairman]		
441-4 <sup>1</sup>	Intermed Micro Theory [214]				1	To be arranged		
1	9:00	MT ThF	M 302	Petro	511c-4	Internship Practicum [Consent of dept chairman]		
2	4:00	TWThF	Wham 205	Stalon	1	To be arranged		
450b-3	History of Economic Thought				534b-4	School Business Management		
	[450a or consent of instructor]				1	6:30-9:00 pm Th	Wham 206	Kaiser
1	4:00	MT Th	M 201	Wiegand	556-4	Seminar in Educational Supervision [456]		
465-4	Mathematical Economics, I				1	6:30-9:00 pm T	Wham 203	Bracewell
	[440 or consent of instructor]				575a-4	Individual Research--Curriculum		
1	12:00	TWThF	Cl 25	Martinsek		[Consent of instructor]		
472-4	Dynamic Economics [441 or consent of instructor]				1	To be arranged		
1	9:00	TWTh S	M 301		575b-4	Individual Research--Supervision		
481-4	Comparative Economic Systems [214 and 215]					[Consent of instructor]		
1	5:45-7:25 pm T Th		Wham 112	Haitani	1	To be arranged		
500-4 <sup>2</sup>	Economics Seminar [Consent of instructor]				575c-4	Individual Research--Buildings		
1	7:35-9:15 pm M W		Cl 25			[Consent of instructor]		
501-1 to 5	Economic Readings [Consent of chairman]				1	To be arranged		
1	To be arranged			Layer	575d-4	Individual Research--Finance		
502-1 to 6	Readings in Resource Economics					[Consent of instructor]		
	[Consent of department of forestry]				1	To be arranged		
1	To be arranged			Beazley	575e-4	Individual Research--School Law		
520a-4	Economic Development Theory and Practice					[Consent of instructor]		
	[440 and 441]				1	To be arranged		
1	9:00	MTW F	Cl 25	Badre	575f-4	Individual Research--Comparative Education		
530-4	Foreign Trade and Finance					[Consent of instructor]		
	[429 or consent of instructor]				1	To be arranged		
1	3:00	MTWTh	Cl 25	Wells	575g-4	Individual Research--History of Education		
541-4	National Income Theory					[Consent of instructor]		
	[441 or consent of instructor]				1	To be arranged		
1	10:00	MT F	Ag 174	Petro	575h-4	Individual Research--Philosophy of Education		
	10:00	Th	Wham 326			[Consent of instructor]		
542-4	Price Theory [440 or consent of instructor]				1	To be arranged		
1	2:00	T ThF	Cl 326	Allen	575j-4	Individual Research--Administration		
	2:00	M	Wham 326			[Consent of instructor]		
2	4:00	MT ThF	Cl 25		1	To be arranged		
552-4	Seminar in Economic Thought				575k-4	Individual Research--Elementary Education		
	[450a, b or consent of instructor]					[Consent of instructor]		
1	7:35-9:15 pm T Th		Cl 25	Hickman	1	To be arranged		
599-3 to 9	Thesis [Consent of chairman]				576a-4	Readings in Administration and Supervision		
1	To be arranged			Layer		[Advanced study]		
600-3 to 16	Doctoral Dissertation [Consent of chairman]				1	To be arranged		
1	To be arranged			Layer	576b-4	Readings in Administration and Supervision		
						[Advanced study]		
1					1	To be arranged		
<sup>1</sup> A student may not receive credit for both 443 and 441.					576c-4	Readings in Administration and Supervision		
<sup>2</sup> May be taken twice for a total of eight hours credit.						[Advanced study]		
					1	To be arranged		
E D U C A T I O N A L A D M I N I S T R A T I O N					589-4	General Graduate Seminar: William James		
A N D S U P E R V I S I O N (E D A D)					1	4:00-6:30 pm T	HEc 208	Eames
355-4	Philosophy of Education				591-2*	Seminar in Social and Philosophical Foundations		
1	8:00	MTWTh	Wham 328		1	10:00-11:50 W	Wham 301a	McKenzie
2	9:00	MTWTh	Wham 328		592-4	Doctoral Seminar in Cultural Foundations [591]		
3	10:00	MTWTh	Wham 328		1	10:00-11:50 T Th	Wham 301a	McKenzie
4	11:00	MTWTh	Wham 328		596-5 to 9	Independent Investigation [Advanced standing]		
5	5:45-7:25 pm M W		Wham 328		1	To be arranged		
6	2:00	M	Ag 146		597-3	Thesis [Advanced standing]		
	2:00	T Th	Wham 321		1	To be arranged		
	2:00	W	Comm 111		598-3	Thesis [Advanced standing]		
420-4	Legal Basis of American Education [424]				1	To be arranged		
1	6:30-9:00 pm T		Wham 328	Sasse	599-3	Thesis [Advanced standing]		
460-4	Curriculum [Consent of instructor]				1	To be arranged		
1	6:30-9:00 pm M		Wham 312					
	Plus 4 extra sessions				600-1 to 16	Dissertation [Advanced standing]		

\*Must be taken concurrently with Guidance 590-2.



# E L E M E N T A R Y E D U C A T I O N (EL ED)

000-0	Reading and Study Techniques			
1	11:00	MTWTh	Wham 210	Ragsdale
00-3	Introduction to Elementary Education			
1	9:00	M W F	Wham 112	
2	10:00	M F	HEC 122	Bradfield
	10:00	W	Wham 321	
3	12:00	M W F	Wham 210	
01-2	Developing Reading and Learning Skills			
1	9:00	MTW	Wham 144	Berger
2	10:00	M W F	Wham 144	
3	10:00	T Th	Wham 144	
	10:00	S	Wham 210	
4	11:00	T Th	Wham 144	
	11:00	S	Wham 210	
5	8:00	M W F	Wham 144	
6	8:00	T Th	Wham 144	
	8:00	S	Wham 210	
7	1:00	M W F	Wham 144	
8	2:00	M W F	Wham 144	
9	3:00	M W F	Wham 144	
10	11:00	M W F	Wham 144	
11	12:00	M W F	Wham 212	
12	4:00	M W F	Wham 212	
03-3 <sup>1</sup>	Understanding the Elementary School Child [GSB 201b]			
1	2:00	M W	Wham 210	Lee
2	3:00	M W	Wham 228	Lee
09-3	Kindergarten-Primary Social Studies Methods			
1	1:00	MTWTh	Wham 206	
014-4	Elementary School Methods [Guid 305]			
1	2:00	MTWTh	Wham 203	Brod
2	9:00	MTWTh	Wham 203	Brod
3	1:00	MTWTh	Wham 203	Bradfield
4	10:00	MTWTh	Wham 206	Randolph
037-4	Reading in the Elementary School [314]			
1	9:00	MTWTh	Wham 210	Ragsdale
2	10:00	MTWTh	Wham 203	Brod
3	2:00	MTWTh	Wham 206	Randolph
4 <sup>2</sup>	10:00	MTWTh	Wham 208	
050-4	to 16 Kindergarten Primary Student Teaching			
1	To be arranged			
051-4	to 16 Elementary Student Teaching, General			
1	To be arranged			
2	To be arranged Art			
3	To be arranged Educable Mentally Handicapped			
4	To be arranged Music			
5	To be arranged Physical Education			
6	To be arranged Physically Handicapped			
7	To be arranged Speech Correction			
013-4	Children's Literature [Guid 305]			
1	10:00	MTWTh	Wham 210	McLaren
2 <sup>3</sup>	8:00	MTWTh	Wham 308	McLaren
3	2:00	MTWTh	Wham 208	McLaren
015-4	Improvement of Instruction in Arithmetic [Math 310, student teaching or experience]			
1	8:00	MTWTh	Wham 206	Paige
037-4	Problems in Reading [Student teaching]			
1	6:30-9:00 pm	M	Wham 210	Ragsdale
2	10:00	MTWTh	TechA 220	Newport
042-4	Science for the Elementary Teacher [314]			
1	1:00	MTWTh	Wham 208	
007-2	to 4 Readings in Readings [505 or 506, 521 a,b,c]			
1	To be arranged			Hill
009-4	to 8 Practicum in Reading [Consent of instructor]			
1	to be arranged			Hill
010-4	Seminar Problems in Reading			
1	6:30-9:00 pm	W	Wham 144	Hill
019-2	to 4 Readings in Res in Elementary Math			
1	To be arranged			
020-4	Diagnosis and Correction of Elementary Math Disabilities			
1	To be arranged			
021b-4	Diagnosis and Correction of Readings Disabilities			
1	9:00-11:30	S	Wham 144	
041-4	Teaching and Curriculum in Elementary School Science			
1	6:30-9:00 pm	M	Pull 304	Cummins
043-4	Teaching the Social Studies in the Elementary School			
1	6:30-9:00 pm	W	Wham 206	Randolph

575a-4	Individual Research (Curriculum)			
1	To be arranged			Lee
575b-4	Individual Research (Supervision)			
1	To be arranged			Lee
575c-4	Individual Research (Language Arts)			
1	To be arranged			Ragsdale
575d-4	Individual Research (Science)			
1	To be arranged			Newport
575e-4	Individual Research (Reading)			
1	To be arranged			Ragsdale
575f-4	Individual Research (Social Studies)			
1	To be arranged			Randolph
575g-4	Individual Research (Problems in Elementary Ed)			
1	To be arranged			
575h-4	Individual Research (Arithmetic)			
1	To be arranged			Paige
575j-4	Individual Research (Problems in Kindergarten-Primary)			
1	To be arranged			Baker
575k-4	Individual Research (Elementary Administration)			
1	To be arranged			Bradfield
596-5	to 9 Independent Investigation			
1	To be arranged			
599-3	to 9 Thesis			
1	To be arranged			
600-2	to 16 Dissertation			
1	To be arranged			

<sup>1</sup>Plus 2 hours in succession from 9:30 to 3:00 on one day, Monday-Friday for School Participation.

<sup>2</sup>Part of a block program--must be scheduled in connection with 413, section 2, Art Education 300, section 3, and Physical Education 319, section 1.

<sup>3</sup>Part of a block program--must be scheduled in connection with 337, section 4, Art Education 300, section 3, and Physical Education 319, section 1.

## E N G I N E E R I N G (ENGR)

222-3	Digital Computer Programming for Engineers [Math 111b]			
1	9:00	T Th	L 121	
	12:00	M W	Wham B24	
2	9:00	T Th	L 121	
	12:00	T Th	Wham B24	
3	9:00	T Th	L 121	
	4:00	M W	Wham B24	
4	9:00	T Th	L 121	
	4:00	T Th	Wham B24	
5	9:00	T Th	L 121	
	5:00	M W	Wham B24	
6	9:00	T Th	L 121	
	5:00	T Th	Wham B24	
260a-3	Analytical Mechanics [Math 150b or concurrent enrollment]			
1	6:00-7:25 pm	M W	TechA 222	
260b-3	Analytical Mechanics [260a]			
1	10:00	M W F	TechA 208	
2	3:00	M W F	TechA 208	
3	6:00-7:25 pm	T Th	TechD 131	
300a-3	Thermodynamics [Math 252a]			
1	8:00	M W F	TechD 131	
300b-3	Thermodynamics [300a]			
1	9:00	M W F	TechA 208	
2	11:00	M W F	TechA 320	
4	7:35-9:00 pm	T Th	TechA 308	
311a-3	Engineering Materials			
1	1:00	T Th	TechA 221	
	6:00-8:50 pm	Th	TechD 14	
311b-3	Engineering Materials [311a]			
1	2:00	T Th	TechA 208	
	6:00-8:50 pm	M	TechD 14	
2	2:00	T Th	TechA 208	
	6:00-8:50 pm	T	TechD 14	
313a-3	Fluid Mechanics [260c]			
1	9:00	M W F	TechD 14a	
313b-3	Fluid Mechanics [313a]			
1	8:00	T Th S	TechD 14a	
2	1:00	M W F	TechD 14a	
321a-3	Physical Metallurgy			
1	To be arranged			TechB 143
331a-4	Circuit and Field Theory			

1	9:00	M W F	TechA 307	3	8:00	T Th	TechA 208
	6:00-8:50 pm	M	TechD 104		10:00-12:50	Th	TechD 104
331b-4	Circuit and Field Theory [331a]			4	4:00	T Th	TechA 208
3	1:00	M W F	TechA 310		1:00-3:50	Th	TechD 104
	6:00-8:50 pm	M	TechD 104	5	4:00	T Th	TechA 208
4	1:00	M W F	TechA 310		1:00-3:50	F	TechD 104
	6:00-8:50 pm	W	TechD 104	6	4:00	T Th	TechA 208
344a-3	Structures				6:00-8:50 pm	T	TechD 104
1	12:00	M W F	TechA 207	308b-3	Machine Design [308a]		
GSB 361-3	Engineering Economics (See General Studies Area B for schedule)			1	12:00	M W F	TechA 319
401b-3	Principles of Propulsion [401b]			310b-3	Construction Mechanics [310a]		
1	7:35-9:00 pm	T Th	TechA 310	1	10:00	M W F	TechA 307
412a-3	Engineering Practice			311a-3	Engineering Materials		
2	12:00	M W F	TechA 210	1	9:00	T Th	TechA 221
412b-3	Engineering Practice				2:00-4:50	T	TechD 14
1	1:00	M W F	TechA 208	311b-3	Engineering Materials [311a]		
413b-3	Intermediate Mechanics of Fluids [413a]			1	8:00	M W	Ag 216
1	2:00	M W F	TechD 14a		9:00-11:50	S	TechD 14
415b-3	Principles of Water Quality Control [415a]			2	8:00	M W	Ag 216
1	10:00	T Th	To be arranged		6:00-8:50 pm	W	TechD 14
	1:00-3:50	T	To be arranged	314b-3	Soil Mechanics [314a]		
416a-3	Water Quality Control			1	9:00	M W	TechA 221
1	To be arranged				6:00-9:00 pm	T	TechD 12a
420b-3	Transport Phenomena [420a]			318a-3	Hydraulics [260c]		
1	To be arranged			1	8:00	M W F	TechD 14a
430-2	to 8 Special Problems in Industry and Technology [Consent of coordinator]				1:00	M W F	TechD 14a
1	To be arranged			318b-3	Hydraulics [318a]		
435a-3	Electronics [331b]			1	10:00	M W	TechD 14a
1	To be arranged				10:00-12:50	F	TechD 14a
441-3	Wave Motion			2	2:00	T Th	TechD 14a
1	To be arranged				6:00-9:00 pm	Th	TechD 14a
443b-3	Engineering Design [443a]			320a-3	Mechanical Engineering Laboratory [Engr 300a]		
1	8:00	M W F	TechA 307	1	12:00-12:50	T Th	TechD 122
459-4	Advanced Engineering Economy [GSB 361]			332b-3	Electrical Machinery [332a]		
1	9:00	M	P 309	1	9:00	T Th	TechA 307
	9:00	T Th	TechA 220		6:00-9:00 pm	Th	TechA 307
	9:00	W	Arena 123	337a-3	Manufacturing Processes		
510a-3	Electromagnetic Fields [Consent of instructor]			1	10:00	M W F	TechD 131
1	To be arranged				11:00	T	TechD 14b
512b-4	Continuum Mechanics [Math 305b]			2	10:00	M W F	TechD 131
1	To be arranged				11:00	Th	TechD 14b
513b-3	Fluid Mechanics [413b or consent of instructor]			3	10:00	M W F	TechD 131
1	To be arranged				4:00	Th	TechD 14b
516a-4	Water Resources Development			338a-4	Electrical Instrumentation [304c, 318b]		
1	To be arranged			1	10:00	T Th	TechA 222
517b-4	Analysis and Design of Engineering Systems [300, 311, Math 305b]				6:00-9:00 pm	W	TechD 106
1	3:00	M W F	TechA 319	349a-3	Unit Operations [337c]		
530a-3	Separation Processes and Equilibrium Operations [Consent of instructor]			1	8:00	M W F	TechD 14c
1	To be arranged			351b-3	Product Control [Tech 101b]		
561a-3	Advanced Vibrations [461, Math 305a, b]			1	12:00	M	TechA 322
1	To be arranged				12:00	W F	TechA 220
570-2	to 6 Special Investigations [Consent of coordinator]			GSB 361-3	Engineering Economics (See General Studies Area B for schedule)		
1	To be arranged			363b-4	Surveying [363a]		
580-1	to 3 Seminar [Consent of coordinator]			1	12:00	T Th	TechA 207
1	To be arranged				2:00-4:50	T Th	TechA 207
599-1	to 9 Thesis [Consent of coordinator]			364b-3	Highway Engineering [363a]		
1	To be arranged			1	10:00	M W F	TechA 307
				426a-3	Photogrammetry [363a]		
				1	To be arranged		
				430-2	to 8 Special Problems in Industry and Technology [Consent of coordinator]		
				1	To be arranged		
				437b-3	Industrial Electronics and Communications [437a]		
				1	12:00	M W	TechA 221
					6:00-9:00 pm	W	TechD 106
				465b-4	Industrial Safety		
				1	11:00	MT ThF	TechA 208
				506-2	to 8 Industrial Design Research		
				1	To be arranged		
				540a-4	Design of Man-Machine Systems and Analysis of Production		
				1	2:00	MTW F	TechA 221
				570-2	to 6 Special Investigations [Consent of coordinator]		
				1	To be arranged		
				580-1	to 3 Seminar [Consent of coordinator]		
				1	To be arranged		
				599-1	to 9 Thesis [Consent of coordinator]		
				1	To be arranged		

# ENGLISH (ENG)

05a-3	English Composition for Foreign Students			
1	8:00	MTWThF	Wham 321	
05b-3	English Composition for Foreign Students			
1	8:00	MTWThF	Wham 329	
2	10:00	MTWThF	M 306a	
00a-3	Grammatical Analysis			
1	8:00	M W F	M 203	
00b-3	Grammatical Analysis			
1	9:00	M W F	M 203	
2	11:00	M W F	M 203	
3	1:00	M W F	M 203	
4	6:00-7:15 pm	M W	M 203	
02a-4	A Survey of English Literature to 1550			
1	10:00	MT ThF	M 304a	
02b-4	A Survey of English Literature, 1550-1750			
1	8:00	MT ThF	M 304a	
2	9:00	MT ThF	M 304a	
3	11:00	MT ThF	M 304a	
4	12:00	MT ThF	M 304a	
5	1:00	MT ThF	M 304a	
6	2:00	MT ThF	M 304a	
7	3:00	MT ThF	M 304a	
8	4:00	MT ThF	M 304a	
9	5:45-7:25 pm	M W	M 304a	
10	7:35-9:15 pm	M W	M 304a	
02c-4	A Survey of English Literature After 1750			
1	3:00	MT ThF	Wham 329	
09a-4	A Survey of American Literature 1600-1860			
1	10:00	MT ThF	Wham 321	
2	12:00	MT ThF	Wham 321	
09b-4	A Survey of American Literature, 1860-1914			
1	2:00	MT ThF	M 203	
2	5:45-7:25 pm	M W	Wham 321	
09c-4	A Survey of American Literature, 1914-Present			
1	4:00	MT ThF	Wham 321	
2	7:35-9:15 pm	M W	L 121	
09-3	Advanced Composition			
1	9:00	M WTh	Wham 321	
2	11:00	M WTh	Wham 312	
3	2:00	MT Th	Wham 329	
4	7:35-8:50 pm	T Th	Wham 312	
03-4	History of the English Language			
1	3:00	MT ThF	Wham 312	Rainbow
04b-4	Middle English Literature			
1	9:00	MT ThF	Wham 312	Hatton
05a-4	Descriptive Linguistics--Phonetics and Phonemics			
1	7:35-9:15 pm	T Th	HEc 122	Friend
2	7:35-9:15 pm	T Th	HEc 106	Katranides
05b-4	Descriptive Linguistics--Morphology and Syntax			
	[Consent of instructor]			
1	2:00	MT Th	Wham 312	Chertack
	2:00	W	Warren 129	
2	2:00	MT Th	Ag 224	Katranides
	2:00	W	L 221	
12d-4	English Non-Dramatic Literature: Age of Johnson			
1	10:00	MT ThF	M 209	Vieth
18-4	English Literature, 1885-1914			
1	8:00	MT ThF	Wham 312	Boyle
20b-4	American Poetry since 1900			
1	1:00	MT ThF	HEc 122	Stibitz
25-4	Modern Continental Poetry			
1	5:45-7:25 pm	T Th	HEc 122	Raiziz
21b-4	English Poetry: Later Romantics			
1	2:00	MT ThF	HEc 122	Benziger
31b-4	Major American Writers: 1800-1865			
1	12:00	MT ThF	HEc 122	Moss
47-4	American Humor and Satire			
1	9:00	MT ThF	Wham 329	Howell
60c-4	British Drama: Restoration and 18th Century			
1	11:00	MT ThF	HEc 122	Vieth
64-4	Modern Continental Drama			
1	1:00	MT ThF	Wham 321	Winn
71b-4	Shakespeare			
1	8:00	MTWTh	HEc 122	Baldwin
2	10:00	MT ThF	Wham 312	Griffin
85-4	Problems in Teaching of English			
1	11:00	MT ThF	Wham 321	
2	3:00	MT ThF	Wham 321	
92a-4	Professional Writing II			
1	3:00-4:50	T Th	HEc 122	Hopkins

495b-4	Literary Criticism: Modern			
1	12:00	MT ThF	Wham 312	Hurley
497a-4	Senior Honors Seminar			
1	4:00	MT ThF	Wham 312	
497c-4	Senior Honors Seminar--Readings			
1	To be arranged			
499-2	to 4 Readings in English			
	[English majors and consent of department]			
1	To be arranged			
499-2	to 4 Readings in English: "Theory of Poetry"			
	[Consent of instructor]			
2	3:00	M F	Wham 203	Kinsella
	3:00	T Th	Wham 137	
502-4	Beowulf			
1	2:00	MT ThF	Wham 137	Gardner
506-3	Old Norse			
1	To be arranged			
				Rainbow
508-4	Studies in Chaucer			
1	3:00-4:50	T Th	Wham 301b	Gardner
513-4	Studies in 17th Century Literature			
1	1:00-2:50	M W	Wham 301b	Schultz
519-4	Studies in Contemporary British Literature:			
	The Powys Brothers and Their Circle			
1	3:00-4:50	M W	M 210	Hopkins
521-4	Studies in Victorian Poetry: "Browning"			
1	5:45-7:25 pm	M W	HEC 122	Hillegas
532-4	Studies in American Transcendentalism: Thoreau			
1	8:00-9:50	T Th	Wham 301b	Stibitz
536-4	Studies in Later 19th Century American Writers:			
	Mark Twain			
1	10:00-11:50	T Th	Wham 301b	Webb
555-4	Studies in Victorian Novel: Dickens			
1	8:00-9:50	M W	Wham 301b	Partlow
560-4	Studies in Renaissance Drama			
1	10:00-11:50	M W	Wham 301b	Harris
579b-4	Studies in Modern Literature: Yeats and Joyce			
1	3:00-4:50	M F	HEC 122	Moore
581c-4	Problems in High School English: Literature			
1	7:35-9:15 pm	M W	M 202	Appleby
585-2	Teaching College Composition			
1	To be arranged			
588b-3	Methods of Teaching English As A Foreign Language			
	[588a]			
1	9:00	MT ThF	HEC 122	Parish
2	9:00	M	Bailey 130	Redden
	9:00	T F	Wham 321	
	9:00	Th	Wham 208	
594a-4	Studies in Literary Form and Symbolic Action:			
	Philosophy of Literary Form			
1	1:00-2:50	T Th	Wham 301b	Duncan
597-2	to 4 Readings in Linguistics			
1	12:00	MT ThF	Wham 137	Redden
598a-1	to 3 Review of English and American Literature			
	[Restricted to master of arts students]			
1	To be arranged			
598b-1	to 3 Review of English and American Literature			
	[Restricted to master of arts students]			
1	To be arranged			
600-1	to 16 Dissertation			
1	To be arranged			
F I N A N C E (FIN)				
305-4	Personal Finance			
1	8:00	M	Ag 146	
	8:00	T Th	Wham 203	
	8:00	F	Comm 116	
320-5	Introduction to Business Finance			
	[Acct 251c, Econ 215c]			
1	11:00	MTWThF	Wham 302	Buboltz
2	12:00	MTWThF	Wham 302	Buboltz
323-4	Investments [320]			
1	10:00	T ThF	Wham 308	Winn
	10:00	W	Wham 302	
324-4	Security Analysis [323]			
1	8:00	M W	Arena 125	Buboltz
	8:00	T Th	TechA 310	
371-4	Business Law I			
1	9:00	TWThF	L 221	Fleerlage
2	8:00	T Th	Wham 201	
	8:00	W	Comm 111	
	8:00	F	LS G16	



372-4 Business Law II  
 1 10:00 M WThF TechA 320 Waters  
 422-4 Advanced Financial Mgt. [421]  
 1 2:00 MTWTh M 307 Winn  
 473-4 Business in its Legal Environment [Senior standing]  
 1 11:00 MT ThF M 309 Waters  
 475-4 Budgeting and Systems [320, Acct 251c]  
 1 3:00 MTW F Wham 210 Hong

# FOOD AND NUTRITION (F & N)

106-3 Fundamentals of Foods  
 1 9:00-10:50 M W Hec 212 Becker  
 9:00 F Hec 212 Becker  
 256-5 Science of Food [100, GSA 101c or equivalent]  
 1 11:00-12:50 T Th Hec 212 Becker  
 12:00 M W F Hec 203 Harper  
 2 11:00-12:50 T Th Hec 214 Harper  
 12:00 M W F Hec 203 Harper  
 3 12:00 M W F Hec 203 Harper  
 3:00-4:50 W F Hec 212 Harper  
 320-3 Nutrition [100, Chem 101b, c, GSA 301]  
 1 3:00-4:50 W Hec 214 Payne  
 3:00 M F Hec 203 Payne  
 321-3 Food and Nutrition Demonstration [256]  
 1 2:00 T Th Hec 203  
 3:00-4:50 T Th Hec 140b  
 2 2:00 T Th Hec 203  
 1:00-2:50 W F Hec 140b  
 362-3 Institution Equipment and Layout [256]  
 1 8:00 T Th S Hec 214 Becker  
 420-3 Recent Developments in Nutrition  
 [320 or equivalent]  
 1 8:00 M W F Hec 212 Konishi  
 515-1 Seminar [420 or 421]  
 1 1:00 F Hec 213 Konishi  
 572-2 to 8 Special Problems [500]  
 1 To be arranged  
 599-5 to 9 Thesis  
 1 To be arranged Konishi  
 Home Economics Honors Courses (HEC)  
 387-2 to 4 Special Problems--Honors [Consent of dept]  
 1 To be arranged  
 388-2 to 4 Research and Investigation--Honors  
 1 To be arranged

# FOREIGN LANGUAGES

Chinese (Chin)  
 201b-5 Intermediate Chinese  
 [GSD 120-9 or 2 years high school]  
 1 11:00 MTWThF M 306a  
 French (Fr)  
 161-0 French for Graduate Students  
 1 3:00 MTW F Wh 207  
 2 3:00 MTW F Wh 203  
 201a-3 Intermediate French  
 [GSD 123-9 or 2 years high school]  
 1 10:00 MTW F Wh 207  
 201b-3 Intermediate French [201a or 3 years high school]  
 2 9:00 MT Th M 209  
 3 11:00 M F Wh 113  
 11:00 W Wh 203  
 4 2:00 M W F Wh 207  
 201c-3 Intermediate French [201b]  
 1 1:00 M M 302  
 1:00 T Th Wh 214  
 220b-2 French Conversation  
 1 8:00 T Th M 202  
 2 9:00 W F Wh 207  
 3 10:00 T Th Wh 203  
 5 12:00 W F Wh 203  
 310b-3 Survey of French Literature [201c]  
 1 9:00 MT Th Wham 206 Vogely  
 2 1:00 M W F M 303 Rowland  
 320b-2 Advanced French Conversation  
 1 9:00 W F Wham 206  
 2 1:00 T Th M 303  
 352-5 French Conversation and Phonetics  
 1 10:00 MTWThF Ag 220 Smith  
 403b-3 French Literature of 18th Century  
 1 12:00 M WTh M 303 Gobert  
 407-3 French Poetry Since 1900

1 2:00 M W F Hec 201 Smith  
 501-2 to 6 Seminar on Selected French Author  
 1 9:00 W F Ag 170 Kilker  
 503-3 Rabelais and Montaigne  
 1 11:00 MT Th Ag 218 Gobert  
 543-2 to 6 Research Problems  
 1 To be arranged  
 599-2 to 9 Thesis  
 1 To be arranged  
 German (Ger)  
 161-0 German for Graduate Students  
 1 4:00 M W F M 308  
 2 4:00 M W F Wh 214  
 201a-3 Intermediate German  
 [GSD 126c or 2 years high school]  
 1 9:00 MTW F Comm 112  
 201b-3 Intermediate German  
 [Ger 201a or 3 years high school]  
 1 9:00 M W F Wh 212  
 2 11:00 M W F Hec 104  
 3 1:00 M W F Wh 212  
 4 2:00 M W F Ag 148  
 220b-2 German Conversation  
 1 9:00 T Th Wh 212  
 2 11:00 T Th Hec 104  
 3 1:00 T Th Wh 212  
 301b-4 Survey 1500-1800  
 1 9:00 M Ag 144  
 9:00 T ThF TechD 131 Liedloff  
 304b-4 Advanced Composition and Conversation  
 1 To be arranged Cosentino  
 310b-4 German Classical Literature II  
 1 11:00 MT ThF P 301 Cosentino  
 401b-2 Faust II  
 1 8:00 T Th M 303 Liedloff  
 411a-3 Middle High German  
 1 10:00 M W F M 303 French  
 413b-3  
 1 9:00 M F Arena 123 French  
 9:00 W Ag 144  
 498-1 to 2 19th Century Readings  
 1 2:00 T Th P 309 Hartwig  
 512-3 19th Century Novel  
 1 11:00 M W F P 204 Liedloff  
 543-2 to 6 Research Problems  
 1 To be arranged  
 599-3 to 9 Thesis  
 1 To be arranged  
 Greek (Grk)  
 201b-4 Intermediate Greek  
 1 To be arranged  
 315-2 to 8 Readings from Greek Authors  
 1 To be arranged  
 Latin (Latn)  
 201b-4 Intermediate Latin  
 1 11:00 MT ThF Wh 203  
 302-4 Virgil's Eclogues & Georgics  
 1 9:00 MTWTh To be arranged  
 315-2 to 8 Readings from Latin Authors  
 1 To be arranged  
 Portuguese (Port)  
 201b-3 Intermediate Portuguese  
 [GSD 135-9 to 2 years high school]  
 1 3:00 M W F M 303 Ekker  
 Russian (Russ)  
 201b-3 Intermediate Russian  
 [GSD 136-9 or 2 years high school]  
 1 9:00 M W F M 306a  
 220b-2 Russian Conversation  
 1 9:00 T Th Hec 120  
 308b-3 Survey of Russian Literature  
 1 9:00 M W F Ag 174  
 330b-2 Advanced Composition and Conversation  
 1 9:00 T Th Ag 220  
 411b-4 Introduction to Russian Classical Literature  
 1 To be arranged  
 509-3 Russian Literature thru 17th Century  
 1 10:00 M W F M 210  
 514b-2 History of Russian Language  
 1 To be arranged  
 Spanish (Span)

61-0	Spanish for Graduate Students				520b-1	to 6 Readings in Resource Economics 471			
1	3:00	M W F	Ag 220		1	To be arranged			Beazley
	3:00	T	Ag 224		520c-1	to 6 Readings in Forest Products or Wood Science			
2	3:00	M W F	Ag 154		1	To be arranged			Ag 190
	3:00	T	Ag 150		575-1	to 6 Research [Consent of department]			
01a-3	Intermediate Spanish				1	To be arranged			
	[GSD 140-9 or 2 years high school]				581-1	to 6 Seminar [Consent of department]			
1	3:00	MTW F	Arena 121		1	To be arranged			
2	3:00	MTW F	Arena 123		599-2	to 9 Thesis			
01b-3	Intermediate Spanish [201a]				1	To be arranged			
1	8:00	M W F	M 303		G E O G R A P H Y (GEOG)				
2	11:00	M W F	Ag 220		300-4	Introduction to Geography			
3	1:00	M W F	Wham 312		1	10:00	MTW F	Ag 144	
4	2:00	M W F	Ag 220		302-4	Introduction to Physical Geography			
20b-2	Spanish Conversation					[300 or concurrent enrollment, GSA 331]			
1	10:00	W F	M 305a		1	9:00	MTW F	Ag 158	
2	10:00	W F	M 202		304-4	Introduction to Economic Geography			
3	12:00	T Th	M 305a			[300 or concurrent enrollment]			
4	12:00	T Th	Wh 214		1	1:00	MTW F	Ag 158	
5	3:00	T Th	M 202		306-4	Introduction to Cultural Geography			
10b-3	Survey of Spanish Literature					[300 or concurrent enrollment]			
1	10:00	M W F	HEc 104	Baralt	1	9:00	MTW F	1002 S. Elizabeth	
20b-2	Advanced Composition and Conversation					310a-4 Introduction to Cartographic Methods			
2	11:00	T Th	M 202	Artiles		[300 or concurrent enrollment]			
3	2:00	T Th	Wh 207	Davis	1	3:00-4:50	T Th	1007 Elizabeth	
33b-3	Survey of Spanish American Literature					324-4 Restoration and Conservation of Natural Resources			
1	11:00	M W F	Wh 212		1	8:00	MTW F	Ag 148	
03-3	Spanish Poetry					343-4 Teaching of Geography [300]			
1	2:00	M W F	Wh 212	Davis	1	3:00	MTW F	1002 S. Elizabeth	
23-3	to 4 Mexican Novel of 20th Century					387-2 to 4 Honors in Geography [Consent of dept]			
1	9:00	M W F	Wh 214		1	To be arranged			
01-2	Seminar on Selected Spanish Authors					402b-3 Advanced Physical Geography I [402a]			
1	11:00	M W	To be arranged	Artiles	1	1:00	M W F	1002 S. Elizabeth	
15b-3	Old Spanish					Carter			
1	1:00	M	Wh 113		403a-4	Advanced Physical Geography II [302 or consent]			
	1:00	T Th	Wh 207	Davis	1	8:00	MTW F	1002 S. Elizabeth	
43-2	to 6 Research Problems					404b-3 Advanced Economic Geography I [404a]			
1	To be arranged				1	2:00	M W F	Ag 144	Fair
99-2	to 9 Thesis					405a-4 Advanced Economic Geography II [304 or consent]			
1	To be arranged				1	2:00	MTW F	1002 S. Elizabeth	Baumann
O R E S T R Y (FOR)					406b-3	Advanced Cultural Geography I [406a]			
01-4	Soil Science for Foresters				1	3:00	M W F	Ag 148	Pennington
1	12:00	MT Th	Ag 214	Jones	410a-4	Advanced Geography Techniques [310a or consent]			
	12:00-1:50	W	Ag 167		1	4:00	MTW F	1002 S. Elizabeth	Smith
2	12:00	MT Th	Ag 214	Jones	424-4	Regional Problems in Conversation [300 or consent]			
	9:00-10:50	W	Ag 167		1	3:00	MTW F	Ag 144	Rooney
50a-3	Forest and Outdoor Recreation					440-2 to 6 Readings for Majors			
1	11:00	M	Ag 214	McCurdy		[Consent of department, major status]			
	11:00	W	Ag 144	McCurdy	1	To be arranged			
	12:00	F	Ag 214	McCurdy	465a-4	Regional Geography--Subsaharan Africa			
60-4	Farm Forestry [GSA 201c]				1	12:00	MTW F	1002 S. Elizabeth	Fair
1	10:00	MT Th	Ag 168	Richmond	467a-4	Regional Geography: Latin American			
	10:00-11:50	F	Ag 168		1	12:00	MTW F	Ag 158	Pennington
63a-5	Forest Mensuration [GSD 108c, 114c]				471a-4	Regional Planning [300 or consent]			
1	2:00	MTWTh	Ag 214	Neumann	1	10:00	MTW F	1002 S. Elizabeth	Smith
	9:00-11:50	F	Ag 195		490b-2	Tutorial in Geography [Senior major]			
2	2:00	MTWTh	Ag 214	Neumann	1	10:00-11:50	T	Ag 158	
	2:00-4:50	F	Ag 195		490c-2	Tutorial in Geography [Senior major]			
65a-4	Practice of Silviculture [GSA 340]				1	10:00-11:50	M	Ag 158	
1	10:00	M W	Ag 116	Kurmes	511-4	Philosophy of Geography [Consent of dept]			
	10:00-11:50	Th	Ag 116		1	7:25-9:15 pm	M W	1002 S. Elizabeth	Thomas

540a-2 to 12 Research in Physical Geography  
[Consent of department]  
1 To be arranged  
540b- 2 to 12 Research in Economics Geography  
[Consent of department]  
1 To be arranged  
540c-2 to 12 Research in Regional Geography  
[Consent of department]  
1 To be arranged  
540d-2 to 12 Research in Cultural Geography  
[Consent of department]  
1 To be arranged  
599-3 to 9 Thesis [Consent of department]  
1 To be arranged  
600-1 to 48 Dissertation [Consent of department]  
1 To be arranged

#### G E O L O G Y (GEOL)

221-5 Historical Geology [220]  
1 1:00 MT F Ag 154 Utgaard  
1 1:00 W Ag 170  
2:00-3:50 W Ag 170  
311-4 Determinative Mineralogy (Non-Silicate)  
[310 and Chem 311b]  
1 3:00-4:50 MT Th T107 Fang  
315-Petrology [220 and 310]  
1 4:00 W F Ag 170 Sawatzky  
1 1:00-2:50 F Ag 170  
414-5 Paleobotany [Bot 400 and Bot 301 or consent]  
1 10:00-11:50 M W F LS 315 Matten  
420b-3 Geology of Petroleum [420a]  
1 1:00 W F Ag 174 Bell  
12:00-1:50 M Ag 174  
425b-4 Invertebrate Paleontology [425a]  
1 10:00 TW F Ag 170 Utgaard  
1 1:00-2:50 Th Ag 170  
431b-4 Geomorphology and Air Photo Interpretation [431a]  
1 12:00 T Th Ag 224 Harris  
11:00-12:50 W F Ag 120  
435b-4 Hydrogeology  
1 To be arranged  
440-1 to 4 Independent Study [Advanced standing]  
1 To be arranged  
460-4 Geological Data Processing  
1 To be arranged  
510b-4 Stratigraphic Methods [510a]  
1 4:00 MT F H8 Miller  
3:00-4:50 W H8  
520a-4 Advanced Petrology (Igneous) [415]  
1 11:00 M W F T107 Fang  
11:00-12:50 Th T107  
528-3 Micropaleontology  
1 To be arranged H8 Utgaard  
540-3 Advanced Studies (Structure) [302 and 410]  
1 5:00 T ThF Ag 170 Sawatzky  
541-1 to 4 Research [To be arranged]  
599-2 to 6 Thesis [To be arranged]

#### G O V E R N M E N T (GOVT)

231-5 American National Government  
1 8:00 MTWThF L131  
2 10:00 MTWThF M301  
232-5 State and Local Government [GSB 211b or 231]  
1 11:00 MTWThF Wham 228  
2 1:00 MTWThF Wham 201  
3 2:00 MTWThF L 131  
4 4:00 MTWThF Wham 201  
300-4 American Government  
1 11:00 MT ThF Wham 201  
2 5:45-7:25 pm T Th L 131  
305-5 Development American Constitution  
[GSB 211b or 231]  
1 2:00 MTWThF Wham 201 Turner  
321-1 to 6 Readings [Consent]  
1 To be arranged Alexander  
2 To be arranged Klingberg  
330-2 Illinois Government [232 or consent]  
1 10:00 W F L 131 Rendleman  
2 10:00 W F HEc 201  
340-3 The Legislative Process [GSB 211b or 231]  
1 3:00 M W F HEc 201

361-3 Problems in Public Administration [360]  
1 1:00 M W F Comm 112 Turner  
371-3 Problems of American Foreign Policy [GSB 345]  
1 8:00 M W F Wham 228 Landecker  
379-4 Political Parties II [GSB 211b or 231]  
1 1:00 MTWTh L 131 Baker  
415b-3 Political Behavior  
1 3:00 M W F Wham 208 Everson  
438-4 Social Welfare Legislation  
1 9:00-10:50 M W Wham 228  
450b-4 Latin American Governments  
1 12:00 MT Th Wham 328 Garner  
12:00 F Wham 329  
452-4 Governments of Africa [GSB 390]  
1 4:00 MTWTh Wham 208 Dale  
453b-4 Soviet Russia [GSB 390]  
1 1:00-2:50 T Th Wham 305 Chou  
457a-4 Governments of Middle East [GSB 390]  
1 4:00 M WThF Wham 228 Abbass  
458c-4 Governments of Asia [GSB 390]  
1 2:00-3:50 T Th TechD 131 Hardenbergh  
461-4 Theory of Public Administration [360]  
1 12:00 MT ThF Wham 201 Goodsell  
466-3 State Government and Administration [232]  
1 2:00 M W F M 207 Isakoff  
471-4 Organization of American Foreign Policy  
[GSB 345 or 371]  
1 11:00 MT ThF Wham 208 Klingberg  
475b-4 International Law [GSB 303]  
1 8:00 MTWTh Cl 326 Jacobini  
484a-4 History of Political Theories [Consent]  
1 10:00-11:50 T Th Cl 326 Morton  
488b-3 Recent Political Theory  
1 9:00-11:30 S Wham 201 Morton  
495b-4 Constitutional Law [305 or consent]  
1 4:00 MTWTh Wham 210 Nelson  
499-4 Scope or Method of Government  
1 8:00 M WThF Wham 208 Kenney  
502-3 Seminar--In Governmental Problems [Consent]  
1 6:30-9:00 pm M Cl 326 Miller  
506-4 Seminar--Political Behavior [415]  
1 10:00-11:30 M W Cl 326 Van Der Slik  
512-4 Seminar--Public Administration [360]  
1 3:00-4:50 T Th Cl 326 Sappenfield  
515-4 Seminar--Comparative Constitutions  
[458a or consent]  
1 9:00 MTWTh Cl 326 Jacobini  
521-1 to 12 Readings [Consent]  
1 To be arranged Alexander  
2 To be arranged Alexander  
530-4 to 12 Internship in Public Affairs [Consent]  
1 To be arranged  
595-2 to 12 Individual Research [Consent]  
1 To be arranged  
599-2 to 9 Thesis [Consent]  
1 To be arranged  
600-2 to 16 Dissertation [Consent]  
1 To be arranged

#### G U I D A N C E A N D E D U C A T I O N A L

P S Y C H O L O G Y (GUID & ED PSYC)  
305-4 Educational Psychology [GSB 201c]  
1 8:00 TWThF Wham 302  
2 6:00-9:00 pm M Wham 302  
3 10:00-10:50 TWThF M 309  
4 1:00 TWThF Wham 308  
5 4:00 TWThF Wham 302  
6 9:00 T Th LS 323  
9:00 W Ag 214  
9:00 F P 308  
7 11:00 TWThF L 121  
8 3:00 T F LS G16  
3:00 W L 131  
3:00 Th L 101  
9 6:00-9:00 pm W L 101  
422a-4 Educational Measurement and Statistics--  
Introduction [305]  
1 1:00 MTW F L 121 Denzel  
2 6:00-9:00 pm T Wham 302 Clark  
501-2 to 4 Special Research Problems  
[Consent of instructor]



1 To be arranged Kelly  
520a-4 Educational Statistics and Experimental Design  
[422b]  
1 6:00-9:00 pm T Wham 308 Beggs  
Plus 4 extra sessions  
520b-4 Educational Statistics and Experimental Design  
[520a]  
1 3:00 MTWTh Wham 302 Beggs  
525-4 School Behavior Problems and Their Prevention  
[Consent of instructor]  
1 1:00 MTWTh Wham 328 Parker  
536a-4 Individual Measurement and Appraisal--Children  
[422a, consent of instructor]  
1 To be arranged Amble  
536b-4 Individual Measurement and Appraisal--Adolescents  
[422a, consent of instructor]  
1 To be arranged Renzaglia  
537a-4 Counseling Theory and Practice  
[Consent of instructor]  
1 8:00-10:50 S Wham 229 Meek  
2 To be arranged Roberts  
541-4 Occupational Information and Guidance [422]  
1 6:00-9:00 pm Th Wham 137 Gallington  
545f-4 Seminar: Pupil Adjustment  
1 To be arranged Amble  
545g-4 Seminar: Learning and Instruction  
[Consent of instructor]  
1 To be arranged Blumenfeld  
545j-4 Seminar: Organization and Administration  
1 To be arranged Cody  
545m-4 Seminar: Doctoral Study  
[Concurrent enrollment with Ed Ad 592]  
1 10:00-11:50 T Th Wham 329 Cody  
562b-4 Human Development in Education--Adolescent [562a]  
1 4:00 MTWTh Wham 308 Mayer  
575a-1 to 12 Practicum in Counseling  
[Consent of department, 537a]  
1 To be arranged Yates  
575b-1 to 12 Practicum in Elementary Guidance  
[Consent of department, 537a]  
1 To be arranged Knewitz  
590-2 Seminar in Behavioral Foundations  
[Concurrent enrollment in Ed Ad 591]  
1 10:00-11:50 M W TechB 20 Jordan  
596-5 to 8 Independent Investigation  
1 To be arranged  
599-3 to 9 Thesis  
1 To be arranged  
600-3 to 16 Dissertation  
1 To be arranged

H E A L T H E D U C A T I O N (HED)  
300-3 Communicable Disease  
1 6:30-9:00 pm W Arena 121 Rohrer  
2 6:30-9:00 pm W TechA 310 Miller  
302s-4 Driver Education and Training  
[Illinois drivers license]  
1 8:00 MT ThF Bldg 56 Aaron  
305-4 Principles and Foundations of Health Education  
1 10:00 MTWTh Arena 123 Russell  
310-4 Home Nursing  
1 2:00-3:50 T Th HEc 303 Rosenbarger  
311-4 Child Development  
1 11:00 MTWTh Arena 123 Richardson  
312-4 Emotional Health  
1 11:00 MTWTh Arena 123 Casey  
313s-4 Introduction to Safety Education  
1 9:00 MT ThF Bldg 56 Bridges  
330-4 Consumer Health  
T1 12:00 MTWTh To be arranged  
334s-4 First Aid  
1 11:00 M WThF Arena 119 Smelser  
2 12:00 M WThF Arena 119  
3 5:45-7:25 pm M Th Arena 119 Bridges  
350-4 Health Education and Methods of Elementary Teacher  
1 2:00 TWThF Arena 119 Phillips  
355-4 Introduction to Public Health  
T1 4:00-5:40 pm M W Arena 119 Miller  
405-3 Methods and Materials in Social Hygiene  
1 9:00 MTWTh Arena 121 Boydston  
443s-4 Methods and Materials in Driver Education [302s]

1 6:30-9:00 pm W Bldg 56 Aaron  
Plus 4 extras sessions  
460-4 School Health Programs  
1 9:00 MTWTh Arena 119 Vaughan  
475s-3 Traffic Law Enforcement and Planning  
1 6:30-9:00 pm T Bldg 56 Aaron  
488-4 Educational Aspects of Environmental Sanitation  
[Consent of department]  
1 To be arranged Grissom  
489-4 Introduction to Vital Statistics  
[Consent of department]  
1 To be arranged Richardson  
490-4 to 8 Field Work [Consent of department]  
1 To be arranged  
491-4 School Health Teaching Methods, Advanced  
1 6:30-9:00 pm T Arena 119 Casey  
Plus 4 extra sessions  
510-4 Construction of the Curriculum in Health Education  
[Consent of department]  
1 6:30-9:00 pm T Arena 121 Russell  
515-4 Review of Current Literature in Health Education,  
Public Health and Safety Education  
[Consent of department]  
1 To be arranged Staff  
520-4 to 6 Special Projects [Consent of department]  
1 To be arranged Boydston  
533b-4 Human Conservation [Consent of department]  
1 6:30-9:00 pm Th Arena 121 Richardson  
536-4 Professional Preparation in Health Education  
[Consent of department]  
1 6:30-9:00 pm W Arena 119 LeFevre  
597a-1 Seminar in Health Education  
[Consent of department]  
1 To be arranged Boydston  
597b-1 Seminar in Health Education  
[Consent of department]  
1 To be arranged Boydston  
597c-1 Seminar in Health Education  
[Consent of department]  
1 To be arranged Boydston  
599-3 to 9 Thesis  
1 To be arranged  
600-1 to 16 Dissertation [Consent of department]  
1 To be arranged Boydston

H I G H E R E D U C A T I O N (HI ED)  
512-4 Higher Education in Selected Nations  
1 6:30-9:15 pm M Wham 228 Caldwell  
513-4 Organization and Administration of Higher Education  
1 4:00-5:40 pm T Th Wham 326 King  
522-1 to 12 Readings in Higher Education  
[Consent of instructor]  
1 To be arranged Brunner  
2 To be arranged King  
3 To be arranged Robinson  
523a-1 to 12 College Teaching  
1 To be arranged Tolle  
523b-1 to 12 College Student Personnel  
1 To be arranged Robinson  
523c-1 to 12 College Administration  
1 To be arranged King  
523d-1 to 12 Institutional Research  
1 To be arranged Brunner  
524-2 to 6 Individual Study [Consent of instructor]  
1 To be arranged Brunner  
2 To be arranged King  
3 To be arranged Robinson  
535b-2 Business Administration of Student Housing  
1 8:00-9:50 Th Comm 112 Isbell  
535c-2 Student Personnel Group Work  
1 10:00-11:50 M Comm 122  
535f-2 Business and Fiscal Administration  
1 6:00-8:00 pm M Wham 301a Rendleman  
545q-3 History of Higher Education  
1 9:00-11:30 S Wham 203 King  
545v-3 Federal Government and Higher Education  
1 7:00-9:30 pm W Wham 301a Robinson  
551-4 Curriculum Design and Policy  
1 6:30-9:15 pm Th Wham 326 Brunner  
565-4 The Community--Junior College  
1 4:00-5:40 pm M W Wham 326 Tolle

589-4 to 6 Advanced Research [Consent of instructor]  
 1 To be arranged  
 599-1 to 9 Thesis  
 1 To be arranged  
 600-1 to 48 Dissertation  
 1 To be arranged

# H I S T O R Y (HIST)

GSB 300a-3, 300b-3, 300c-3 History of the United States  
 (See General Studies Area B for schedule)  
 304b-3 History of the Ancient World (Greece)  
 1 11:00 MT Th M 207  
 322b-4 English History (1603-1815)  
 1 11:00 MT ThF M 206 Cherry  
 332b-3 Medieval History (Late Middle Ages)  
 1 2:00 MT Th M 206  
 352b-3 History of Latin America (Independent)  
 1 12:00 M W F M 207 Gold  
 367b-3 History of the Far East (1800-1945)  
 1 8:00 M W F M 207 Kuo  
 GSB 369-3 The Contemporary Far East (See General  
 Studies Area B for schedule)  
 372a-3 History of Russia (to 1905)  
 1 10:00 M W F M 207 O'Day  
 GSB 380a-3 East Europe: Cultural Heritage (See  
 General Studies Area B for schedule)  
 401a-3 History of the South (Old)  
 1 1:00 MT Th M 207 Ammon  
 406b-3 Diplomatic History of Europe  
 1 11:00 MT Th M 102  
 409a-3 U.S. Constitutional History:  
 The 19th Century  
 1 2:00 MT Th HEc 118  
 410-2 to 5 Special Readings in History  
 [Consent of department]  
 1 To be arranged  
 411b-3 Social and Intellectual History of the United  
 States (1830-1900)  
 1 12:00 M W F M 210 Fladeland  
 416d-3 Early Modern Europe  
 1 6:00-7:25 pm T Th M 207  
 417b-3 Advanced English History (Constitutional)  
 1 9:00 M W F M 206 Cherry  
 421c-3 Europe in the 19th Century  
 1 4:00 M W F M 206  
 425b-3 American Colonial History (1688-1763)  
 1 1:00 T ThF M 206  
 431b-3 Europe in the 20th Century  
 1 8:00 M M 309  
 8:00 T Th HEc 206  
 435c-3 Avanced American History (1919-1939)  
 1 3:00 M W F M 206 Allen  
 440b-3 History of American Diplomacy (Since 1913)  
 1 10:00-10:50 MT Th M 206  
 442b-3 History of the West  
 1 10:00 M LS 205 Clifford  
 10:00 W Comm 122  
 10:00 F Wham 210  
 452-3 Historical Research and Thesis Writing  
 [History majors only]  
 1 12:00 M W F M 202 O'Day  
 2 2:00 M W F M 202 Fladeland  
 3 9:00 T M 206  
 9:00 M Th M 202  
 471a-3 History of Mexico (19th Century)  
 1 9:00 M W M 102 Gold  
 9:00 F M 207  
 473b-3 The Caribbean Area in the 20th Century  
 1 10:00 T ThF M 102 Gardiner  
 500a-5 History Seminar--American  
 1 3:00-4:40 M W Wham 301b Simon  
 500b-5 History Seminar--European  
 1 9:00-10:40 W HEc 122 Stromberg  
 9:00-10:40 F Wh 107  
 2 1:00-2:40 W M 102 Elwitt  
 1:00-2:40 F Wh 107  
 510-2 to 5 Readings in History [Consent of department]  
 1 To be arranged  
 515-3 Current United States History and Problems  
 1 2:00-3:40 T Th HEc 120 Allen  
 519a-3 Age of Jefferson

1 3:00-4:40 T Th M 210 Ammon  
 598b-1 Teaching History in College  
 1 To be arranged  
 599-1 to 9 Thesis  
 1 To be arranged

# H O M E A N D F A M I L Y (H & F)

227-3 Family Living  
 1 8:00 T Th HEc 140b Carpenter  
 8:00 W HEc 5 Carpenter  
 2 8:00 T Th HEc 140b Carpenter  
 8:00 F HEc 5 Carpenter  
 237-3 Child Development  
 1 9:00 M W HEc 140b Zunich  
 9:00 T HEc 203 Zunich  
 2 9:00 M W HEc 140b Zunich  
 9:00 Th HEc 203 Zunich  
 3 9:00 M W HEc 140b Zunich  
 9:00 F HEc 203 Zunich  
 300-3 Home Economics for Men  
 1 11:00 M W F HEc 140b Heisler  
 2 11:00 M W HEc 140b  
 11:00 T HEc 5  
 301-3 Home Arts and Social Usage  
 1 2:00 M W F HEc 5  
 324-3 Equipment  
 1 11:00 M Th HEc 5 Malone  
 11:00-12:50 W HEc 5  
 2 11:00 M Th HEc 5 Malone  
 11:00-12:50 F HEc 5  
 332-4 Home Management Residence [227,331]  
 1 To be arranged Home Management  
 Apartment Malone  
 341-4 Consumer Problems  
 1 10:00 TW F HEc 140b Craig  
 10:00 M HEc 201  
 2 10:00 TW F HEc 140b Craig  
 10:00 Th HEc 118  
 345a-2\* Child Development Practicum [237]  
 1 To be arranged  
 345b-3 Child Development Practicum [237]  
 1 4:00 M HEc 116b  
 366-3 Family Development [GSB 201-9, 227, or GSB 341]  
 1 2:00 M W F HEc 120 Carpenter  
 481-2 to 6 Readings [Consent of instructor and chairman]  
 1 To be arranged Carpenter  
 Johnston  
 Zunich  
 500-4 Research Methods  
 1 6:30-9:00 pm M HEc 116b Zunich  
 566-4 Interpersonal Relationships Within the Family  
 [227 or GSB 341, 237, 331]  
 1 6:30-9:00 pm W HEc 120 Carpenter  
 572-2 to 8 Special Problems [Consent of instructor and  
 chairman]  
 1 To be arranged Carpenter  
 Johnston  
 Zunich  
 599-5 to 9 Thesis [Consent of instructor and chairman]  
 1 To be arranged Carpenter  
 Johnston  
 Zunich  
 Home Economics Honors Courses (HEc)  
 387-2 to 4 Special Problems--Honors  
 [Consent of department]  
 1 To be arranged  
 388-2 to 4 Research and Investigation--Honors  
 [Consent of department]  
 1 To be arranged  
 1<sup>1</sup>Plus 2 hours to be arranged between 9:00 and 12:00 or  
 1:00 and 4:00, MTWThF.  
 H O M E E C O N O M I C S E D U C A T I O N  
 (H E E D)  
 309a-3 Program Planning in Home Economics  
 1 9:00 M WTh HEc 303 Fults  
 310-4 Evaluation and Adult Education  
 1 To be arranged HEc 133 Morgan  
 313-2 to 4 Special Problems  
 1 To be arranged HEc 133

70-5 History, Development and Principles of Extension Work  
1 8:00 MTWThF HEc 120 Morgan

81-2 to 6 Readings [Consent of instructor and chairman]  
1 To be arranged HEc 133

06-4 Evaluation Procedures in Home Economics  
1 6:00-8:30 pm T HEc 120 Fults

10a-1 to 4 Practicum in Supervision [510]  
1 To be arranged HEc 133 Campbell

15-4 Trends in Home Economics Education  
1 8:30-11:00 S HEc 120 Keenan

72-2 to 8 Special Problems  
1 To be arranged HEc 133

73-1 to 6 Seminar: Research in Home Economics [Consent of instructor]  
1 To be arranged HEc 133

99-5 to 9 Thesis  
1 To be arranged HEc 133

00-3 to 48 Dissertation  
1 To be arranged HEc 133

ome Economics Honors Courses

87-2 to 4 Special Problems  
1 To be arranged

88-2 to 4 Research and Investigation  
1 To be arranged

INDUSTRIAL TECHNOLOGY (IT)

00b-4 Plastic Materials and Processes  
1 6:00-8:00 pm W TechD 131  
8:00-9:00 pm W TechD 30  
Plus 4 extra class meetings

04a-3 Architectural Drafting and Design  
1 6:00-9:00 pm T Th TechA 319

04b-3 Architectural Drafting and Design [304a]  
1 6:00-9:00 pm M W TechA 319

05a-3 Technical Illustration [Tech 101a]  
1 1:00-2:50 M W F TechA 319

06b-3 Industrial Design [306a]  
1 10:00-11:50 M W F TechA 319

12a-3 Wood Products and Processes  
1 10:00-11:50 M W F Pull I-14

12b-3 Wood Products and Processes [312a]  
1 1:00-2:50 M W F Pull I-14

14a-3 Casting and Metal Forming Processes [Math 111a or equivalent]  
1 8:00 M W TechA 221  
6:00-8:50 pm T TechD 146

14b-3 Casting and Metal Forming Processes  
1 9:00 M W TechD 131  
8:00-9:50 F TechD 14b  
2 9:00 M W TechD 131  
3:00-4:50 F TechD 14b  
3 9:00 M W TechD 131  
6:00-8:00 pm Th TechD 14b

16a-3 Industrial Coverings  
1 6:00-9:00 pm T Th To be arranged

20a-4 Industrial Crafts  
1 5:45-9:00 pm M W TechD 30

22a-3 Machining of Metals  
1 3:00-4:50 M W F Pull I-14

22b-3 Machining of Metals [322a]  
1 6:00-9:00 pm M W TechD 14b

25a-3 Metal Removal Processes [322 or Consent of instructor]  
1 8:00 T Th TechA 221  
3:00-4:50 T TechD 14b

25b-3 Metal Removal Processes [322a or Consent of instructor]  
1 8:00 T Th TechA 308  
9:00-10:50 T TechD 14b  
2 8:00 T Th TechA 308  
9:00-10:50 Th TechD 14b

27a-3 Materials, Processes and Fabrication of Metals  
1 6:00-9:00 pm M W Pull I-14

27b-3 Materials, Processes and Fabrication of Metals  
1 6:00-9:00 pm T Th Pull I-14

32a-3 Power Mechanics  
1 3:00-4:50 M W F To be arranged

37a-3 Manufacturing Processes

1 10:00 M W F TechD 131  
11:00 T TechD 14b

2 10:00 M W F TechD 131  
11:00 Th TechD 14b

3 10:00 M W F TechD 131  
4:00 Th TechD 14b

341b-3 Maintenance, Layout and Material Handling [Junior standing]  
1 3:00 M W F TechD 131

343a-3 Electricity-Electronics  
2 1:00-2:50 M W F TechD 106

343b-3 Electricity-Electronics [343a]  
1 8:00-9:50 M W F TechD 106

351b-3 Product Control [Tech 101b]  
1 12:00 M TechA 322  
12:00 W F TechA 220

351c-3 Product Control [Tech 101b]  
12:00 M W F TechA 307

INSTRUCTIONAL MATERIALS (IM)

301-2 The Instructional Materials Approach to Learning  
1 10:00 M W Wham 308 Butts

308-4 Introduction to Cataloging  
1 6:30-9:00 pm M Wham 327 Cox

400-2 Library Research Methods  
1 10:00 M W Wham 327 Evans

403-4 School Library Functions and Management  
1 11:00 MTWTh Wham 327 Fletcher

405-4 Library Materials for Children  
1 8:00 MTWTh Wham 327 Fletcher

406-4 Library Materials for Adolescents  
1 1:00 MTWTh Wham 327 Fletcher

407-4 Basic Reference Sources  
1 10:00 MTWTh Wham 327 Cox

413-4 Cataloging of Non-Book Materials [308]  
1 12:00 MTWTh Wham 329 Cox

417-4 Audio-Visual Methods in Education  
1 9:00 MTWTh Wham 327 Edwards  
2 2:00 MTWTh L 121 Rust  
3 12:00 MTWTh L 201 Edwards

4 2:00 MTWTh Wham 327 Evans  
5 3:00 MTWTh Wham 327 Edwards  
6 4:00 MTWTh Wham 327 Butts  
7 7:35-9:00 pm T Th Wham 327 Ingli

445-4 Preparation of Teacher-Made Materials [417]  
1 8:00-9:50 MTWTh Wham 202 Scholl

470-4 Programming Automated Instruction  
1 5:45-7:25 pm T Th Wham 329 Woelflin

514-4 Survey of Research and Development in Instructional Materials  
1 7:35-9:00 pm T Th Wham 210 Rust

576-2 to 8 Problems in Instructional Materials  
1 To be arranged Wendt

599-5 to 9 Thesis  
1 To be arranged Wendt

JOURNALISM (JRNLI)

100-1 Current Events  
1 10:00 F L 171 Ford

101-3 Introduction to Journalism I  
1 8:00 M W F L 231 Clayton

102-3 Introduction to Journalism II  
1 11:00 M W F L 101 Clayton

103-3 The News [101 and 102]  
1 11:00 T Th T27 Matheson  
1:00-2:50 F T27  
2 12:00 T Th T27 Matheson  
1:00-2:50 W T27

201-3 Newswriting and Editing I [103]  
1 9:00 W T48 Matheson  
(Laboratory sessions to be arranged)

2 9:00 Th T48 Matheson  
(Laboratory sessions to be arranged)

202-3 Newswriting and Editing II [103]  
1 10:00 M W T27 Matheson  
10:00-11:50 F T27

303-3 Newswriting and Editing III [202]  
1 11:00 M T27 Fought  
(Laboratory sessions to be arranged)

330-3 Editorial Writing [303]  
1 10:00 T Th S Ag 218 Lawhorn



345-3	History of Journalism					1	5:45-7:25 pm	T Th	L 101	McCarty
1	11:00	M W F	M 210	Ford		2	10:00	MT ThF	Wham 302	Bishop
351-3	Community Newspaper Management [350]					430-4	Human Relations and Organizational Behavior [340]			
1	3:00	M W F	T27	Rice		1	1:00	MTW F	M 210	Hunt
370-3	Principles of Advertising					440-4	The Management Process [Restricted to MBA students]			
1	9:00	M W F	Ag 220	Schick		1	8:00	MTWTh	Comm 116	W. Greenwood
372-5	Advertising Copy Layout and Production [370 and 202]						8:00	F	Comm 118	
1	4:00	M W F	T27	Hileman		451-4	Methods of Quantitative Analysis [MBA student or consent of instructor]			
	3:00	T Th				1	4:00	M WThF	M 301	Madden
373-3	Advertising Media and Markets [370 and 202]					460-4	Work Measurement for Wage and Salary Control [385]			
1	11:00	M	Pierce 130			1	8:00	MT ThF	Ag 154	Bishop
	11:00	W F	Ag 218	Hileman		474-4	Management Responsibility in Society [340]			
374-3	Advertising Policies and Problems [370 and 202]					1	2:00	M WThF	Comm 112	W. Greenwood
1	2:00	M W F	Ag 174	Hileman		479-4	Problems in Business and Economics [Senior standing]			
383a-3	Newspaper Production Management					1	12:00-1:50	T Th	HEc 106	Kreider
1	9:00	T Th S	T27	Lawhorn		480-4	Recent Labor Law Developments and Problems			
383b-3	Newspaper Production Management [383a]					1	2:00	MTWTh	Wham 112	Waters
1	9:00	M W F	T27			481-4	Administrative Management [340]			
390-3	Advanced Reporting [303]					1	8:00-9:50	M	HEc 106	Hunt
1	2:00	T Th	T27				8:00-9:50	W	HEc 202	
	10:00	S	T27			2	1:00-2:50	M	Ag 222	Taylor
391-3	Feature Writing [303]						1:00-2:50	W	TechA 322	
1	11:00	T Th	Ag 170	Matheson		3	3:00-4:50	T Th	HEc 206	Taylor
	(One hour additional by arrangement)									
393-3	Publicity Methods					M A R K E T I N G (MKTG)				
1	8:00	T Th S	T27	Clayton		225-3	Marketing and the Economy [GSB 202 or GSB 212 or equivalent]			
398-3	Magazine Production and Layout [297]					1	9:00	M F	TechA 111	Rosenbarger
1	10:00	T Th	T27				9:00	W	L 161	
	1:00-2:50	M	T27	Ford		2	11:00-11:50	M W	TechA 111	Wattler
399-1	Senior Seminar [Senior standing]						11:00	F	L 151	
1	12:00	W	Ag 118	Frazer		3	2:00	T Th	Wham 308	Wattler
422-3	Teaching High School Journalism [Junior standing]						2:00	F	L 201	
1	1:00	M W F	Ag 218	Rice		325-4	Marketing and the Firm [225 and Acct 251a or equivalent]			
431-3	Public Relations [Senior standing]					1	1:00	MTWTh	L 201	Humphries
1	8:00	M W F	Ag 174	Lawhorn		2	3:00	MTWTh	L 201	Humphries
432-3	Communications Agencies and Public Opinion [Senior standing]					3	9:00	M WThF	L 201	Humphries
1	7:00-8:50 pm	M W	Ag 220	Long		4	8:00	T ThF	Ag 216	Luck
440-3	Content Analysis						8:00	M	Wham 302	
1	9:00	M	Wh 203			329-4	Retail Management [325]			
	9:00	W F	M 202	Rucker		1	3:00	TWThF	L 221	LaGarce
495-3	Book Reviewing					2	4:00	M WThF	L 201	LaGarce
1	1:00	M W	Library 219	Ford		333-4	Principles of Advertising [325]			
530-2	Seminar in Press Freedom					1	9:00	T ThFS	Ag 166	Perry
1	10:00-11:50	Th	Library 108	McCoy		2	3:00	TWThF	LS 205	Perry
533-1 to 3	Research Problems in Journalism					335-4	International Marketing [325]			
1	To be arranged			Rucker		1	2:00	MT ThF	L 221	
590-3	Seminar in Journalism History					2	4:00	MT ThF	M 309	Powell
1	3:00-4:50	T Th	Ag 218	Hart		337-4	Principles of Salesmanship [325]			
595-0	Graduate Seminar					1	11:00	MTWTh	L 201	Graeff
1	4:30	F	Ag 218	Rucker		2	1:00	MT ThF	L 221	Wattler
599-1 to 8	Thesis					3	1:00	MTWTh	Ag 166	LaGarce
1	To be arranged			Rucker		341-4	Transportation [325]			
600-1 to 16	Dissertation					1	12:00	M W F	L 171	Rosenbarger
1	To be arranged			Rucker			12:00	Th	L 141	
M A N A G E M E N T (MGT)										
271-4	Business Writing [GSD 101]					401-4	Problems of Retailing [325 and 329]			
1	9:00	MT ThF	LS 205	Fohr		1	5:45-7:25 pm	M W	L 201	Mertes
340-4	Business Organization and Management [Junior standing or consent of instructor]					438-4	Sales Management [325 and 337]			
1	8:00	MT ThF	L 141	Bedwell		1	2:00	MTWTh	L 201	Hoffman
2	4:00	MT ThF	L 161	Rehn		2	10:00	TWThF	L 221	Lowry
350-4	Management Control Systems [340 or consent of instructor]					3	1:00	T ThF	LS 205	Lowry
1	8:00	M WThF	M 302	Cross			1:00	W	LS 323	
361-4	Business Report Writing [GSD 101]					452-4	Physical Distribution Management [325 and 341]			
1	9:00	TWThF	HEc 106	Bateman		1	8:00	M WThF	L 221	Hansen
3	10:00	MT ThF	M 203	Lorenz		463-4	Advertising Management [325 and 333]			
4	11:00	MTW F	Wham 203	Lorenz		1	10:00	MT ThF	L 201	Mertes
380-4	Production Management [340 or consent of instructor]					490-4	Marketing Research and Analysis [325 and one quarter basic statistics or its equivalent]			
1	3:00	TWThF	M 301	Madden		1	4:00	MTWTh	L 221	Prell
2	11:00	M WThF	M 301	Rehn		2	11:00	TWThF	L 221	Perry
382-4	Time and Motion Study					M A T H E M A T I C S (MATH)				
1	2:00	TWThF	LS 323	Siemens		111a-5	College Algebra and Trigonometry [High School or 106]			
385-4	Personnel Management [340 or consent of instructor]					1	8:00	MTWThF	TechA 422	

2	9:00	M W F	Wham 302	2	11:00	M W F	Wham 308	Paige
	9:00	T Th	M 207		11:00	Th	Wham 203	
3	10:00	MTWThF	Ag 154	3	11:00	M W F	Wham 308	Paige
4	10:00	MTWThF	Brown 130		10:00	T	Wham 205	
5	11:00	MTWThF	Comm 111	4	11:00	M W F	Wham 308	Paige
6	12:00	MTWThF	Ag 154		10:00	Th	Wham 205	
7	1:00	MTWThF	TechA 220	311-3	The Teaching of Secondary Mathematics [320a]			
8	1:00	MTWThF	Ag 216	1	11:00	M W F	TechA 422	
9	2:00	MTWThF	M 309	320a-3	Fundamental Concepts of Algebra [150b]			
10	3:00	MTWThF	M 302	1	11:00	T Th S	TechA 322	
11	3:00	MTWThF	M 309	2	3:00	M W F	Wham 206	
12	6:00-7:25 pm	M WTh	TechA 220	320b-3	Fundamental Concepts of Algebra [320a]			
13	7:35-9:00 pm	M WTh	TechA 220	1	8:00	M WTh	TechA 322	
1b-5	College Algebra and Trigonometry [111a]			2	3:00	M W F	TechA 422	
1	8:00	MTWThF	Brown 130	335a-3	Concepts of Geometry [252a]			
3	9:00	TWThFS	M 102a	1	9:00	M W F	TechA 220	
4	9:00	MTWThF	Brown 130	335b-3	Concepts of Geometry [335a]			
5	9:00	MTWThF	TechA 422	1	3:00	MT Th	TechA 320	
6	10:00	MTWThF	M 102a	395-2 to 5	Readings in Mathematics			
7	10:00	MTWThF	HEC 203	1	To be arranged			
8	11:00	MTWThF	M 102a	410b-4	Statistical Analysis [410a]			
9	11:00	MTWThF	Brown 130	1	10:00	M W F	Ag 166	
10	12:00	MTWThF	M 102a		10:00-11:50	T	TechA 320	
11	12:00	MTWThF	Ag 216	2	10:00	M W F	Ag 166	
12	1:00	MTWThF	M 102a		10:00-11:50	Th	TechA 422	
13	1:00	MTWThF	Brown 130	3*	10:00	M W F	Ag 166	
14	1:00	MTWThF	Arena 121		10:00-11:50	Th	TechA 308	
15	2:00	MTWThF	M 102a	421a-3	Linear Algebra [252b]			
16	2:00	MTWThF	Brown 130	1	8:00	M W F	TechA 220	
17	3:00	MTWThF	M 102a	421b-3	Linear Algebra [421a]			
18	6:00-7:25 pm	M WTh	TechA 320	1	12:00	TW F	TechA 322	
19	7:35-9:00 pm	M WTh	TechA 320	2	2:00	T	TechA 320	
20	7:35-9:00 pm	M WTh	TechA 210		2:00	W	TechA 320	
0a-5	Elementary Calculus and Analytic Geometry				2:00	F	TechA 322	
	[GSD 114b or 111b]			426b-3	Mathematical Logic [426a]			
1	8:00	MTWThF	M 301	1	11:00	T Th S	TechA 222	
2	9:00	MTWThF	Ag 216	428a-3	Boolean Algebra and Switching Theory [320a]			
3	11:00	MTWThF	TechD 131	1	1:00	M W F	TechA 320	
4	1:00	MTWThF	TechA 210	452b-3	Advanced Calculus [452a]			
5	3:00	MTWThF	Brown 130	1	9:00	MTW F	TechA 322	
6	6:00-7:25 pm	M WTh	TechA 322	2	9:00	M	Gym 204	
0b-5	Elementary Calculus and Analytic Geometry				9:00	T	TechA 310	
	[150a]				9:00	W	LS 205	
1	8:00	MTWThF	TechA 320		9:00	F	TechA 308	
2	11:00	MTWThF	TechA 220	455b-3	Advanced Mathematics for the Physical Sciences			
3	12:00	MTWThF	M 301		[305b]			
4	2:00	MTWThF	Ag 216	1	12:00	MT Th	TechA 220	
5	3:00	MTWThF	Ag 216	458a-3	Finite Mathematics [252a]			
6	7:35-9:00 pm	M WTh	TechA 322	1	4:00	M W F	TechA 320	
5-4	Programming for Digital Computers			458b-3	Finite Mathematics [458a]			
1	1:00	T ThF	Wham 210	1	2:00	M W F	TechA 422	
	7:00 pm	M	Wham B24	475b-3	Numerical Analysis [475a]			
2	1:00	T ThF	Wham 210	1	8:00	M W F	Ag 220	
	8:00 pm	M	Wham B24	480b-3	Probability [480a]			
3	1:00	T ThF	Wham 210	1	10:00	M W F	TechA 322	
	7:00 pm	W	Wham B24	483b-4	Introduction to Mathematical Statistics [483a]			
4	1:00	T ThF	Wham 210	1	3:00	MT ThF	TechA 322	
	8:00 pm	W	Wham B24	501b-3	Real Variables [501a]			
2a-5	Intermediate Calculus and Analytic Geometry			1	1:00	T ThF	TechA 322	
	[150b]			505b-3	Theory of Ordinary Differential Equations [505a]			
1	10:00	MTWThF	TechA 210	1	9:00	M W F	TechB 20	
2	11:00	MTWThF	TechA 210	520b-3	Modern Algebra [520a]			
3	12:00	MTWThF	TechD 131	1	2:00	MT Th	TechA 322	
4	2:00	MTWThF	TechA 210	522-3	Advanced Topics in Algebra [520b]			
5	6:00-7:25 pm	M WTh	TechA 210	1	2:00	MT Th	TechB 20	
2b-4	Intermediate Calculus and Analytic Geometry			530a-3	Point Set Topology [433]			
	[252a]			1	4:00	M W F	TechA 322	
1	8:00	MT ThF	TechA 210	531b-3	Algebraic Topology [531a]			
2	9:00	MT ThF	TechA 210	1	4:00	M W F	TechB 20	
3	3:00	TWThF	Arena 125	550c-2	to 6 Seminar in Analysis			
5a-3	Applied Mathematics for the Physical Sciences			1	10:00-11:50	T Th	TechB 20	
	[252b]			550g-2	to 6 Seminar in Topology			
1	10:00	T Th S	TechA 322	T1	2:00-3:50	W F	TechB 20	
2	1:00	M WTh	TechA 422	551b-3	Functional Analysis [551a]			
5b-3	Applied Mathematics for the Physical Sciences			1	1:00	M W F	TechB 20	
	[305a]			555b-3	Complex Variables [555a]			
1	12:00	M W F	TechA 320	1	11:00	M W F	TechA 322	
2	4:00	M W F	TechA 220	595a-2	to 5 Special Project in Algebra [Consent]			
0-4	The Teaching of Elementary Mathematics [GSD 108b]			1	To be arranged			
1	11:00	M W F	Wham 308	595b-2	to 5 Special Project in Geometry [Consent]			
	11:00	T	Wham 312	1	To be arranged			

595c-2 to 5 Special Project in Analysis [Consent]  
 1 To be arranged  
 595d-2 to 5 Special Project in Probability and  
 Statistics [Consent]  
 1 To be arranged  
 595e-2 to 5 Special Project in Mathematics Education  
 [Consent]  
 1 To be arranged  
 595f-2 to 5 Special Project in Logic and Foundations  
 [Consent]  
 1 To be arranged  
 595g-2 to 5 Special Project in Topology [Consent]  
 1 To be arranged  
 599-2 to 6 Thesis [Consent]  
 1 To be arranged  
 600-3 to 12 Dissertation [Consent]  
 1 To be arranged

\*Open to Psychology students only.

#### M I C R O B I O L O G Y (MICR)

301-5 Principles of Microbiology [1 year college  
 Chem and GSA 201a,b,c]  
 1 8:00 MTWTh LS G16 McClary  
 9:00-10:50 M W LS G6  
 9:00 F LS G6  
 2 8:00 MTWTh LS G16  
 11:00-12:50 M W LS G6  
 11:00 F LS G6  
 3 8:00 MTWTh LS G16 McClary  
 1:00-2:50 M W LS G6  
 8:00 F LS G6  
 4 8:00 MTWTh LS G16 McClary  
 3:00-4:50 M W LS G6  
 10:00 F LS G6  
 5 8:00 MTWTh LS G16 McClary  
 1:00-2:50 T Th LS G6  
 9:00 S LS G6  
 390-2 to 5 Undergraduate Research Participation  
 [4.00 grade point average and consent]  
 1 To be arranged  
 401-1 Seminar [10 hrs Micro and consent]  
 1 10:00-11:50 F LS G16  
 422-5 Microbiology of Foods [301, 302 and organic  
 Chemistry]  
 1 2:00 MTW LS G16 McClary  
 1:00-4:50 F LS G6  
 451-6 Immunology [403 and consent]  
 1 9:00 M W F LS G16  
 9:00-11:50 T Th LS G6  
 500-1 Seminar [Grad standing in Micro]  
 1 10:00-11:50 F LS G16  
 506-2 Bibliographic Methods in Microbiology  
 1 7:35-9:00 pm T LS 205 Ogur  
 511-1 to 15 Research  
 1 To be arranged  
 525-3 Biochemistry and Physiology of Microorganisms  
 [Micro 425]  
 1 10:00 M WTh LS G16 Ogur  
 526-2 Biochemistry and Physiology of Microorganisms  
 [Micro 426]  
 1 1:00-4:50 Th LS G8 Ogur  
 528-1 to 3 Readings in Microbiology [Graduate standing  
 in Biology]  
 1 To be arranged  
 599-3 to 9 Thesis  
 1 To be arranged  
 600-3 to 12 Dissertation  
 1 To be arranged

#### M U S I C (MUS)

001b-1 Symphonic Band  
 1 3:00 M W F T36 Koenigstein  
 001c-1 Stage Band [Audition]  
 1 3:00 T Th T36 Stiman  
 001d-1 Laboratory Band  
 1 To be arranged Koenigstein  
 001e-1 Wind Ensemble [Audition]  
 1 4:00-5:30 M W F T36 Siener  
 001f-1 Accompanying Lab [Audition]  
 1 To be arranged

002a-1 University Choir [Audition]  
 1 3:00 MTWTh Alg 115 Kingsbury  
 002b-1/2 to 1 Oratorio Chorus  
 1 7:30-9:45 pm M HEc 140b Kingsbury  
 002c-1 Male Glee Club [Audition]  
 1 8:00-9:30 pm T Th Alg 115 Kingsbury  
 002d-1 Women's Choral Ensemble [Audition]  
 1 4:00 M W Alg 115 Kingsbury  
 4:00 F Alg 116  
 003-1 Orchestra [Audition]  
 1 1:00 M W F T36 Kartman  
 7:15-9:30 pm T T36 Levinson  
 010a-1 Strings  
 1 11:00 M W F To be arranged  
 Wharton  
 Spurbeck  
 010b-1 Woodwinds  
 1 8:00 M W F Aud 201 Resnick  
 Intravaia  
 010c-1 Brass  
 1 8:00 M W F To be arranged  
 Stiman  
 010d-1 Percussion  
 1 8:00 M W F T36 Floyd  
 2 8:00 M W F To be arranged  
 Koenigstein  
 010e-1 Piano (MM 6,1,2)  
 1 8:00 M F Alg 301 Hartline  
 Bedford  
 010e-1 Piano (KP 2,3,1)  
 2 9:00 M F Alg 301 Hartline  
 Bedford  
 010e-1 Piano (MM 4,5,6)  
 3 10:00 T F Alg 301 Hartline  
 Bedford  
 010e-1 Piano (MM 1,2,3)  
 4 11:00 M F Alg 301 Hartline  
 Bedford  
 010e-1 Piano (MM 1,2,3)  
 5 12:00 M W Alg 301 Hartline  
 Bedford  
 010e-1 Piano (MM 5,6,1)  
 6 1:00 M W Alg 301 Hartline  
 Bedford  
 010e-1 Piano (MM 4,5,6)  
 7 2:00 M W Alg 301 Hartline  
 Bedford  
 010e-1 Piano (KP 1,2,3)  
 8 3:00 M W Alg 301 Hartline  
 Bedford  
 010e-1 Piano (MM 6,6,6)  
 9 12:00 T F Alg 301 Hartline  
 Bedford  
 010e-1 Piano (MM 3,4,5)  
 10 1:00 T F Alg 301 Hartline  
 Bedford  
 010e-1 Piano (MM 5,6,1)  
 11 2:00 T F Alg 301 Hartline  
 Bedford  
 010e-1 Piano (KP 2,3,1)  
 12 3:00 T F Alg 301 Hartline  
 Bedford  
 010e-1 Piano (KP 3,1,2)  
 13 11:00 T Th Alg 301 Hartline  
 Bedford  
 010e-1 Piano (SKP 3,3,3)  
 14 9:00 T Th Alg 301 Hartline  
 Bedford  
 010e-1 Piano (KP 1,2,3)  
 15 10:00 M W Alg 301 Hartline  
 Bedford  
 010e-1 Piano (KP 3,1,2)  
 16 11:00 W S Alg 301 Hartline  
 Bedford  
 010f-1 Voice  
 1 10:00 W F Alg 248 Waterman  
 2 1:00 T Th Alg 248 Waterman  
 105a-4 Theory of Music  
 1 9:00 MTWThF Alg 106 Hussey  
 105b-4 Theory of Music [105a]  
 1 9:00 MTWThF Alg 106 Werner



2	9:00	MTWThF	Alg 116	Grizzell	355-1	Chamber Music (String Ensemble)		
3	8:00	MTWThF	Alg 106	Webb	1	12:00	M	Aud Stage Baber
4	8:00	MTWThF	Alg 116	Baber	365-1	Chamber Music (Woodwinds)		
5	9:00	MTWThF	Alg 248	Hall	1	12:00	T	Aud 201 Resnick
40a-1	to 4	Private Applied Music--Violin			365-1	Chamber Music (Brass)		
1	To be arranged	Alg 219	Wharton		2	12:00	T	Aud Stage Nadaf and LeMasters
2	To be arranged	T37	Levinson					
*3	To be arranged	T36	Kartman		365-1	Chamber Music (Percussion)		
40b-1	to 4	Private Applied Music--Viola			3	To be arranged		Floyd
1	To be arranged	T37	Baber		411c-3	Chamber Music Literature		
40c-1	to 4	Private Applied Music--Cello			1	2:00	M W F	Alg 106 Kartman
1	To be arranged	T37	Spurbeck		414-2	Collegium Musicum		
40d-1	to 4	Private Applied Music--String Bass			1	7:00-9:00 pm	M	T37 Morgan
1	To be arranged	T37	Spurbeck		420-1	Music Education Practicum		
40e-1	to 4	Private Applied Music--Flute			1	To be arranged		Wharton
1	To be arranged	Aud 201	Resnick		T431-2	Organization and Development of High School Stage Band		
2	To be arranged	Alg 234	Bottje		1	To be arranged		Stiman
40f-1	to 4	Private Applied Music--Oboe			440-1 to 4	Private Applied Music (See Music 140)		
1	To be arranged	T36	Hussey		440s-1 to 4	Private Harpsichord		
40g-1	to 4	Private Applied Music--Clarinet			1	9:00	To be arranged	
1	To be arranged	Aud 201	Resnick					T37 Morgan
40h-1	to 4	Private Applied Music--Bassoon			441b-2	Counterpoint (18th Century) [205c]		
1	To be arranged	T36	Intravaia		1	2:00	T Th	Alg 248 Werner
40i-1	to 4	Private Applied Music--Saxophone			T443b-2	Advanced Composition [443a]		
1	To be arranged	Aud 201	Resnick		1	To be arranged	Alg 234	Bottje
40j-1	to 4	Private Applied Music--Percussion			465a-3	Development and Teaching of Strings		
1	To be arranged	T36	Floyd		1	To be arranged		Spurbeck
40k-1	to 4	Private Applied Music--Piano			481-2 to 6	Readings in Music Theory		
1	To be arranged	Alg 238	Denker		1	To be arranged	Alg 244	Mueller
2	To be arranged	Alg 247	Barwick		482-2 to 6	Readings in Music History and Literature		
3	To be arranged	Alg 241	Werner		1	To be arranged	T37	Morgan
4	To be arranged	Alg 245	Grizzell		483-2 to 6	Readings in Music Education		
5	To be arranged	Alg 244	Mueller		1	To be arranged	Shry 204	Gordon
40l-1	to 4	Private Applied Music--French Horn			502b-2	Analytic Techniques		
1	To be arranged	Alg 233	Nadaf		1	2:00	T Th	Alg 106 Mueller
40m-1	to 4	Private Applied Music--Trumpet			503-3	Objective Research Techniques in Music Education		
1	To be arranged	Alg 229	LeMasters		1	6:45-9:15 pm	Th	Alg 106 Gordon
*2	To be arranged		Olsson		504-3	Music of the Middle Ages and Renaissance		
40n-1	to 4	Private Applied Music--Trombone			1	1:00	M W F	Alg 248 Barwick
1	To be arranged	Alg 231	Stiman		509-3	History and Philosophy of Music Education		
40o-1	to 4	Private Applied Music--Tuba			1	To be arranged		Gordon House
1	To be arranged	Alg 103	Siener		522-3	Seminar in Music History and Literature		
40p-1	to 4	Private Applied Music--Baritone			1	To be arranged	T37	Denker
1	To be arranged	Alg 231	Stiman		531-3	Advanced Composition		
40q-1	to 4	Private Applied Music--Voice			1	To be arranged	Alg 234	Bottje
1	To be arranged	Alg 246	W. Taylor		540-1 to 4	Private Applied Music (see Music 140)		
2	To be arranged	Alg 239	Waterman		540s-1 to 4	Private Harpsichord		
3	To be arranged	T37	Lawrence		1	9:00	To be arranged	
40r-1	to 4	Private Applied Music--Organ						T37 Morgan
1	To be arranged	Ag 217	Webb		545-3	Philosophies of Music Theory		
*Not included at 200, 200, 400, or 500 levels					1	4:00	M W F	Alg 244 Mueller
00-3	Fundamentals of Music (non-music majors)				550-3	Administration and Supervision of Music		
1	1:00	M W F	Alg 116	Gordon	1	8:00	T	U Sch 201 C. Taylor
05b-3	Theory of Music [205a]					8:00-9:50	Th	U Sch 201 C. Taylor
1	11:00	MTWThF	Alg 106	Denker	556-2	to 6 Advanced Conducting (Choral)		
2	11:00	MTWThF	Alg 116	Mueller	1	To be arranged	Alg 115	Kingsbury
40-1 to 4	Private Applied Music (See Music 140)				556-2	to 6 Advanced Conducting (Instrumental)		
00b-3	Elementary Music Methods for Non-Music Majors [Music 200]				2	To be arranged	T37	Levinson
1	To be arranged		Shelby		566-1 or 2	Instrumental Ensemble (Band) [Audition]		
05i-3	Instrumental Problems and Materials				1	4:00-5:30	M W F	T36 Siener
1	9:00	M W F	Shry 201	Koenigstein	566-1 to 2	Instrumental Ensemble (Orchestra)		
06-3	Music for Primary Children				2	1:00	M W F	T36 Kartman
1	8:00	M W F	U Sch 201	Shelby		7:15-9:30 pm	T	T36 van Bronkhorst
09b-2	Arranging [309a]				567-1 or 2	Vocal Ensemble [Audition]		
1	2:00	W F	Alg 248	Koenigstein	1	To be arranged	Alg 115	Kingsbury
12b-2	Composition [312a]				568-2	to 12 Opera Workshop [Audition]		
1	To be arranged	Alg 234	Bottje		1	4:00	T Th	Alg 115 Lawrence
18a-2	Conducting (General)					3:00-4:50	F	Alg 115 Lawrence
1	2:00	W F	Alg 116	Levinson		7:00-10:00 pm	WTh	Alg 115 Lawrence
26b-2	Analysis [326a]				599-3	to '9 Thesis		
1	10:00	T F	Alg 115	Bottje	1	To be arranged	Shry 204	Gordon
40-1 to 4	Private Applied Music (See Music 140)				*This Section not at higher levels.			
40s-1	to 4	Private Harpsichord						
1	To be arranged		Morgan					
45-1	Chamber Choir [Audition]				NOTE: All private lessons (Applied Music Courses) must be arranged with the instructor concerned on the first day of each quarter. Courses in private or class instruments will be offered to qualified non music majors after consultation with the chairman of the Department of Music. Students enrolled in private or class applied courses are			
1	4:00	T Th	Alg 116	Kingsbury				
46-2	to 12	Opera Workshop [Audition]						
1	4:00	T Th	Alg 115	Lawrence				
	3:00-4:50	F	Alg 115	Lawrence				
1	7:00-10:00 pm	WTh	Alg 115	Lawrence				

expected to practice at least one hour per day. Air-conditioned practice rooms will be assigned on the first day of each quarter in Altgeld 103.

#### PHILOSOPHY (PHIL)

301-4	Philosophy of Religion				
1	10:00	MTWTh	HEc 208	Howie	
GSC 311-3	Religions and Philosophies of India				
1	10:00	M W F	L 161	Allen	
360-4	Philosophy of Art				
1	6:00-7:25 pm	T Th	HEc 202	Baralt	
GSC 382-3	Graeco-Roman and Medieval Philosophy				
1	8:00	M W F	HEc 208		
2	12:00	M W F	HEc 208	Howie	
3	1:00	M W F	HEc 208	Diefenbeck	
4	2:00	M W F	HEc 208	Mrs. Eames	
5	3:00	M W F	HEc 202	Kelly	
GSC 386-3	Early American Philosophy				
1	2:00	M	TechA 111	Hahn	
	2:00	W F	L 141		
443-4	Philosophy of History				
1	3:00	MTW F	HEc 208	Diefenbeck	
460-4	Advanced Philosophy of Art				
1	7:35-9:15 pm	T Th	HEc 203	Tenney	
481b-3	19th Century European Philosophy				
1	9:00	M W F	HEc 208	Leys	
490-3	Ethics				
1	4:00-6:30 pm	M	HEc 208	Leys	
490-3	Marx				
2	7:00-9:30 pm	M	HEc 208		
490-3	Oriental Philosophy				
3	4:00-6:30 pm	F	HEc 208	Liu	
490-3	Special Problems				
4	To be arranged			Hahn	
530-3	Theory of Knowledge				
1	4:00-6:30 pm	W	HEc 208	McClure	
588-3	Kant				
1	4:00-6:30 pm	T	HEc 106	Schilpp	
589-4	Philosophy of William James				
1	4:00-6:30 pm	T	HEc 208	Axtelle	
590-3	Philosophy of Language				
1	7:00-9:30 pm	W	HEc 208	Clarke	
590-3	Existentialism				
2	7:00-9:30 pm	Th	HEc 208	Flynn	
590-3	Pre-Socratic Philosophers				
3	7:00-9:30 pm	T	HEc 211	McKenzie	
591-1 to 5	Readings in Philosophy				
1	To be arranged		HEc 209	Hahn	
599-2 to 9	Thesis				
1	To be arranged		HEc 209	Hahn	
600-2 to 12	Dissertation				
1	To be arranged		HEc 209	Hahn	

#### PHYSICAL EDUCATION FOR MEN (PEM)

100a-1	Methods of Teaching Swimming				
1	11:00	M W F	Pool	Essick	
2	12:00	M W F	Pool	Essick	
100e-1	Methods of Teaching Basic Rhythms				
1	8:00	M W F	Arena	Franklin	
2	9:00	M W F	Arena	Franklin	
100f-1	Methods of Teaching Exercise				
1	10:00	M W	Arena		
	10:00	F	Arena 125		
2	12:00	M W	Arena		
	12:00	F	Arena 125		
100h-2	Methods of Teaching Basketball				
1	11:00	MTWTh	Arena	Holder	
100k-2	Methods of Teaching Gymnastics				
1	8:00	MTWTh	Arena	Meade	
2	9:00	MTWTh	Arena	Meade	
100m-2	Methods of Teaching Wrestling				
1	8:00	MTWTh	Arena	Wilkinson	
2	9:00	MTWTh	Arena	Wilkinson	
101-2	Orientation Practicum in Physical Education				
1	1:00	M W	Arena 123	Martin	
2	1:00	T Th	Arena 123	Martin	
171-2	Varsity Basketball [Consent of department]				
1	3:00	MTWThF	Arena	Hartman	
174-2	Varsity Gymnastics [Consent of department]				
1	3:00	MTWThF	Arena	Meade	

177-2	Varsity Swimming [Consent of department]				
1	4:00	MTWThF	Pool	Essick	
179-2	Varsity Wrestling [Consent of department]				
1	3:00	MTWThF	Arena	Wilkinson	
303-5	Kinesiology [GSA 301, Phs1 300]				
1	11:00	MTWThF	Arena 125	Knowlton	
305-2	Physical Education for the Atypical Student [GSA 301, Phs1 300]				
1	10:00	T Th	Arena 125	Okita	
317-1	Life Saving and Water Safety [Intermediate Swimming]				
2	1:00-2:30	T ThF	Pool		
330a-2	Theory of Basketball Coaching [100h]				
1	10:00	T Th	TechA 208	Hartman	
331b-2	Theory of Baseball Coaching [100i]				
1	2:00	T Th	Arena 125	Lutz	
331c-2	Theory of Track and Field Coaching [100j]				
1	8:00	T Th	Arena 125	Hartzog	
341-3	Principles of Physical Education [Senior standing GSA 301]				
1	9:00	M W F	Arena 125	Shea	
350-3	Methods and Materials of Teaching Physical Education in Elementary School				
1	9:00	Th	Arena 123	Franklin	
	10:00	M W	Arena 125	Franklin	
	10:00	Th	Arena 119		
354-3	Organization and Administration of Physical Education and Athletics [Senior standing]				
1	2:00	M W F	Arena 125	Shea	
355-2	Assisting Techniques [Junior standing]				
1	8:00	F	Arena 125		
355-2	Laboratory [Junior standing]				
1	To be arranged				
370-4	Tests and Measurements in Physical Education [GSA 301, Phs1 300]				
1	1:00	MTWTh	Arena 125	Franklin	
376-3	Care and Prevention of Athletic Injuries [PEM 303 and Phs1 300]				
1	12:00	MTWTh	Arena 125	Spackman	
400-4	Evaluation in Physical Education (plus 4 extra sessions)				
1	7:00-9:30 pm	T	Gym 203	West	
406-4	Basic Concepts in Physical Education (plus 4 extra sessions)				
1	7:00-9:30 pm	Th	Arena 125	Shea	
408-4	Physical Fitness: Its Role and Application in Education (plus 4 extra sessions)				
1	7:00-9:30 pm	W	Arena 125	Bender	
420-4	Physiological Effects of Motor Activity (plus 4 extra sessions) [GSA 301]				
1*	2:00	MTWTh	Arena 123	Weber	
502-4	Foundations of Motor Skills				
1	7:00-9:30 pm	M	Gym 203	Zimmerman	
504-4	Problems in Physical Education [500]				
1	To be arranged				
525-1 to 5	Readings in Physical Education				
1	To be arranged				
599-6 to 9	Thesis				
1	To be arranged				
600-2 to 12	Dissertation				
1	To be arranged				

\*Undergraduate only.

#### PHYSICAL EDUCATION FOR WOMEN (PEW)

113-1*	Fundamentals of Body Movement				
1	10:00	M W F	Gym 207		
2	2:00	MT F	Gym 207		
224-1*	Basketball				
1	10:00-11:30	T Th	Gym 207		
2	11:00-12:30	T Th	Gym 207		
242-1*	Square and Social Dance				
1	10:00	M W F	Gym 114		
2	11:00	M W F	Gym 114		
273-1	Dance Workshop (public performance required)				
1	7:00-9:00 pm	T	Gym 208		
317-1	Life Saving [Intermediate swimming]				
1	1:00-2:30	T Th	Pool		

Professional Physical Education



03-5	Kinesiology [Phys 300]	3	10:00-12:50	F	Bldg 56 R110	
1	11:00 MTWThF Arena 125	4	3:00-5:50 T		Bldg 56 R110	
04c-2	Techniques of Teaching Basketball [224]	5	3:00-5:50 Th		Bldg 56 R110	
1	1:00 M W Gym 207 West	6	4:00-6:50 M		Bldg 56 R110	
04d-2	Techniques of Teaching Tumbling and Gymnastics	7	6:00-8:50 pm W		Bldg 56 R110	
1	1:00 T Th Gym 207 Stehr	211a-5	University Physics [Math 150b, may be taken concurrently]			
08-5	Methods of Teaching Dance [212,222]	1	12:00 MT Th	P 308	Arvin	
1	8:00 MTWThF Gym 114 Davies		1:00-2:50 W	Bldg 56 R110		
11b-1	Theory of Officiating Basketball [311a]		11:00 M F	P 309		
1	9:00 F Gym 203 Thorpe	2	12:00 MT Th	P 308	Arvin	
13-4	Dance Production		12:00 W F	P 309		
1	1:00-2:50 M W Gym 203		3:00-4:50 W	Bldg 56 R110		
19-4	Teaching Elementary School Group Activities [Guid 305 or Psyc 301]	3	12:00 MT Th	P 308	Arvin	
1	11:00 MTWTh Gym 208		2:00-3:50 F	Bldg 56 R110		
2	3:00 MTWTh Gym 208		12:00 W F	P 308		
3	4:00-5:30 T Th Gym 208	211b-5	University Physics [211a]			
51-4	Physical Education for the Atypical Student	1	8:00 M W F	P 308	Klein	
1	9:00 MTWTh Gym 203 Davies		8:00-9:50 T	Bldg 56 R110		
70-4	Tests and Measurements in Physical Education		9:00 M Th	P 308		
1	1:00 MTWTh Arena 125	2	8:00 M W F	P 308	Klein	
00-4	Evaluation in Physical Education		8:00-9:50 Th	Bldg 56 R110		
1	7:00-9:30 pm T Gym 203 West		9:00 TW	P 308		
06-4	Basic Concepts in Physical Education	3	8:00 M W F	P 308	Klein	
1	7:00-9:30 pm Th Arena 125 Shea		8:00-9:50 S	Bldg 56 R110		
08-4	Physical Fitness--Its Role and Application in Education		9:00 ThF	P 309		
1	7:00-9:30 pm W Arena 125 Weber	4	1:00 M W F	P 308	Henneberger	
75a-2	to 4 Individual Research--Dance		1:00-2:50 T	Bldg 56 R110		
1	To be arranged	5	2:00 M Th	P 308		
75b-2	to 4 Individual Research--Kinesiology		1:00 M W F	P 308	Henneberger	
1	To be arranged		1:00-2:50 Th	Bldg 56 R110		
75c-2	to 4 Individual Research--Measurement		2:00 TW	P 308		
1	To be arranged	6	1:00 M W F	P 308	Trummel	
75d-2	to 4 Individual Research--Motor Learning		6:00-7:50 pm Th	Bldg 56 R110		
1	To be arranged		6:00-6:50 M W	P 308		
75e-2	to 4 Individual Research--Physiology of Exercise	211c-5	University Physics [211a]			
1	To be arranged	1	8:00 T Th S	P 308		
75f-2	to 4 Individual Research--History and Philosophy		9:00 TW	P 309		
1	To be arranged		9:00-10:50 M	Bldg 56 R110		
02-4	Foundations of Physical Education	300-5	University Physics [111,206,211]			
1	7:00-9:30 pm M Gym 203 Zimmerman	1	3:00 TW F	P 309	Bowden	
04-4	Problems in Physical Education [500]		3:00-4:50 Th	P 301		
1	To be arranged	2	3:00-4:50 M	P 302		
25-1	to 6 Readings in Physical Education		3:00 TW F	P 309	Bowden	
1	To be arranged		3:00-4:50 Th	P 301		
99-6	to 9 Thesis		4:00-5:50 W	P 302		
1	To be arranged	305b-3	Introduction to Electric Theory II [305a]			
00-2	to 12 Dissertation	1	2:00 M W F	P 309	Lefebvre	
1	To be arranged	310-3	Light [111, 206, or 211]			
		1	3:00 M W F	P 301	Narasimhaiah	
		311-1	Optics Laboratory [310, must be taken concurrently]			
		1	2:00-4:50 T	P 302	Narasimhaiah	
		2	2:00-4:50 Th	P 302	Narasimhaiah	
		312-2	Electric Circuits Laboratory [309]			
		1	2:00-4:50 T Th	P 318	Watson	
		2	2:00-4:50 M W	P 318	Hickey	
		404a-3	Physical Electronics I [304, 305, 401, consent of department]			
		1	1:00 M W F	P 301	Watson	
		410a-3	Electromagnetic Wave Theory [305, 310]			
		1	1:00 M W F	P 309	Klein	
		415b-3	Modern Physics II [Consent of department]			
		1	8:00 M W F	P 309	Fang	
		418-1	to 4 Modern Physics Laboratory [Consent of department]			
		1	To be arranged			Bowden
		420-2	to 5 Special Projects [ 301, 305]			
		1	To be arranged			
		504b-4	X-Ray Diffraction and Lattice Dynamics II			
		1	11:00 M W	TechB 109	Canut-Amoros	
			10:00-11:50 Th	TechB 109		
		510b-3	Classical Mechanics II [510a, consent of department]			
		1	9:00 M W F	P 301	Zitter	
		511b-3	Mathematical Methods of Physics II [511a, consent of department]			
		1	2:00 M W F	P 301	O'Dwyer	
		530b-3	Electromagnetic Theory I [305]			
		1	9:00 T Th S	P 301	Kang	

Majors in Women's Physical Education only.

# PHYSICS (PHYS)

11b-3	College Physics [111a]					
1	11:00 M W F P 308	Zimmerman				
	11:00 T P 309					
12b-1	College Physics Laboratory [111b, must be taken concurrently]					
1	1:00-3:50 M Bldg 56 R110					
06a-3	College Physics [Math 111b]					
1	10:00 T P 308	Hickey				
	11:00 T Th S P 308					
06b-3	College Physics [206a]					
1	10:00 M W F P 308	Allredge				
	10:00 T P 309					
2	10:00 M W F P 308	Allredge				
	10:00 Th P 309					
3	10:00 M W FS P 308	Allredge				
4	3:00 M W F P 308	Saporoschenko				
	3:00 Th P 309					
5	3:00 M W F P 308	Saporoschenko				
	4:00 W P 309					
07a-1	College Physics Laboratory [206a, must be taken concurrently]					
1	8:00-10:50 W Bldg 56 R110					
07b-1	College Physics Laboratory [206b, must be taken concurrently]					
1	10:00-12:50 T Bldg 56 R110					
2	10:00-12:50 Th Bldg 56 R110					







- 599-1 to 9\* Thesis  
 1 To be arranged  
 600-1 to 16\* Dissertation  
 1 To be arranged

\*Unlimited enrollment for any Psychology Graduate student.

#### RADIO - TELEVISION (R-T)

- 161-4 Radio-Television Speaking  
 1 11:00 MTWTh Comm 110  
 2 3:00 MTWTh Comm 110  
 251-3 Survey of Broadcasting  
 1 8:00 M W F Comm 144  
 252-3 Broadcast Production Analysis  
 1 10:00 MT Th Comm 144 Dybvig  
 260-1 Audio Control Room Practices  
 1 12:00-1:50 T Comm 110  
 2 12:00-1:50 Th Comm 110  
 310-3 Radio-TV News [Jrnl 103, 202, 303]  
 1 1:00 M W F Comm 110 Dugas  
 351-5 Programs and Audiences [251]  
 1 2:00 MTWThF Comm 144  
 352-4 Broadcast Laws and Policies [251]  
 1 9:00 MTWTh Comm 144 Lederman  
 361-3 Television Announcing [161]  
 1 4:00 M W F Comm 108 Brown  
 363-4 Radio Program Production [260]  
 1 10:00-11:50 F Comm 110 Richter  
 7:00-10:00 pm Th Comm 110  
 364-4 Television Production [252]  
 1 1:00 MTWTh Comm 108 Lederman  
 369-4 Television Directing [364]  
 1 8:00 T Th Comm 108 Rochelle  
 3 hrs. lab to be arranged  
 370-2 Films for Television  
 1 12:00 W F Comm 144 Mendenhall  
 373-1 to 2 Advanced Radio Production Laboratory  
 [260, 363]  
 1 4:00 T Th Comm 144 Lynch  
 374-1 to 2 Advanced TV Production Laboratory [364]  
 1 5:00 M Comm 144 Rochelle  
 375j-1 to 2 Individual Research Problems [Consent  
 of instructor]  
 1 12:00 W Comm 110 Rimerman  
 375n-1 to 2 Individual Production Problems [Consent  
 of department]  
 1 12:00 F Comm 110 Dybvig  
 377-3 Radio and TV Advertising [Jrnl 370, 371]  
 1 4:00 M W F Comm 144 Abady  
 383-4 Broadcast Writing [363, 364]  
 1 8:00 M W Comm 110 Abady  
 8:00-9:50 F Comm 110  
 385-1 to 2 Radio-TV Special Events [310]  
 1 10:00 W Comm 144 Dugas  
 393-3 Radio, Television and Society [251, 351, 352]  
 1 11:00 M W F Comm 144 Rimerman

#### RECREATION AND OUTDOOR EDUCATION (REC)

- 201-3 Leisure and Recreation  
 1 8:00 M W F M 201 O'Brien  
 202-3 Programs in Recreation [201]  
 1 9:00 M W F Wham 308 O'Brien  
 301-4 Outdoor Education  
 [Elementary majors only, open to all]  
 1 10:00-11:50 M To be arranged Knapp  
 10:00-11:50 W Ag 174  
 302-3 Institutional Recreation [201, 202]  
 1 10:00 M W F M 201  
 310a-2 Social Recreation (Techniques)  
 [Rec major or consent of instructor]  
 1 10:00-11:50 M W Comm 112 Taylor  
 310b-2 Social Recreation (Dramatics)  
 [Major or consent of instructor]  
 1 10:00-11:50 T Th TechA 310 Taylor  
 310d-2 Social Recreation (Music and Dance)  
 [Major or consent of instructor]  
 1 7:35-9:00 pm Th Large Gym Room Rillo

- 340-3 Activities for Special Population [302]  
 1 1:00 M W F M 201 Freeberg  
 425-3 Recreation Areas and Facilities [15 hrs Recreation]  
 1 3:00 MTWTh Wham 328 Abernathy  
 490-4 to 16 Practicum [Consent of instructor]  
 1 To be arranged Taylor  
 500-4 Principles of Recreation  
 1 6:30-9:00 pm T M 303 O'Brien  
 520-4 Recreation Administration Workshop [500]  
 1 6:30-9:00 pm W M 303 Ridinger  
 540-4 Survey and Planning of Facilities [500]  
 1 6:30-9:00 pm T M 302 Taylor  
 596-2 to 9 Independent Study  
 1 To be arranged Recreation Office

#### REHABILITATION INSTITUTE (RI)

- 414-1 to 6 Developing Employment Opportunities  
 [Consent of instructor]  
 1 To be arranged 612 W. Grand Viececi  
 MTWThF 612 W. Grand Dickey  
 480-2 An Introduction to Rehabilitation  
 1 1:00-2:50 M 612 W. Grand Viececi  
 481-2 An Introduction to Employment and Development  
 Services  
 1 9:00-10:50 S 612 W. Grand Bozarth  
 486-4 Introduction to Behavior Modification [485]  
 1 10:00-11:50 W F 612 W. Grand Campbell  
 519-2 Selection, Placement and Follow-up [511]  
 1 9:00-10:50 M 612 W. Grand Viececi  
 526-4 Complex Human Behavior [485]  
 1 7:35-9:15 pm T Th 612 W. Grand Hake  
 531-4 Vocational Appraisal [Guid 422b]  
 1 1:00-2:50 pm W F 612 W. Grand Bozarth  
 533-4 Measurement in Behavior Change [485]  
 1 10:00-11:50 W F 512 W. Grand Sanders  
 541-2 Medical Aspects of Rehabilitation  
 [Consent of department]  
 1 3:00-4:50 W 612 W. Grand  
 551-4 General Rehabilitation Counseling  
 [Consent of instructor]  
 1 5:45-9:15 pm Th 612 W. Grand Roberts  
 564-4 Sexual Behavior [485]  
 1 7:35-9:15 pm T Th 612 W. Grand Rubin  
 567-4 School-Related Behavior [485]  
 Tl 7:35-9:14 pm T Th 612 W. Grand Rubin  
 571-1 to 4 Seminar on Selected Topics [Consent of dept]  
 Tl To be arranged Renzaglia  
 Bozarth  
 574-2 Seminar in Pastoral Counseling  
 [Consent of instructor]  
 1 To be arranged  
 576-2 Seminar in Behavior Modification  
 [Consent of instructor]  
 1 10:00-11:50 M Sulzer  
 578-2 Seminar in Correctional Rehabilitation Counseling  
 [Consent of instructor]  
 1 To be arranged Twomey  
 580-1 to 6 Practicum in Rehabilitation Services  
 [Consent of department]  
 583-1 to 6 Practicum in Behavior Modification  
 [Consent of instructor]  
 1 To be arranged  
 585-1 to 16 Practicum in Rehabilitation Counseling [551]  
 1 To be arranged  
 589-0 to 12 Internship in Rehabilitation  
 [Consent of department]  
 1 To be arranged  
 590-1 to 16 Independent Projects [Consent of dept]  
 1 To be arranged  
 591-1 to 16 Research in Rehabilitation  
 [Consent of instructor]  
 1 To be arranged  
 599-1 to 9 Thesis [Consent of instructor]  
 1 To be arranged

#### RELIGIOUS STUDIES (RELS)

- 201b-3 Biblical Studies II  
 1 8:00 M To be arranged  
 8:00 W Ag 154  
 8:00 F Ag 214





1 11:00-12:50 T Th Ag 150 Brooks  
533-4 Ecology of Human Communities  
[15 hrs of soc or consent of instructor]  
1 To be arranged  
539-4 Sociology of Bureaucracy  
[15 hrs of soc and consent of instructor]  
1 7:00-9:30 pm Th HEc 118 Nall  
542-4 Seminar on the Family [15 hrs of soc including  
340 or consent of instructor]  
1 9:00-11:50 F Wham 212 Lantz  
561-4 Alcohol and Society [Consent of instructor]  
1 7:00-9:30 pm T Wham 212 Snyder  
572-4 Seminar in Criminology [Consent of instructor]  
1 To be arranged E. Johnson  
586-3 The Change Agent in Planned Change  
[Consent of instructor]  
1 To be arranged Thomas  
587-2 to 8 Individual Research in Community Development  
[Major in community development]  
1 To be arranged Thomas  
591-2 to 6 Individual Research [Consent of instructor  
and chairman of department]  
1 To be arranged  
596-2 to 12 Readings in Sociology [Consent of instructor  
and chairman of department]  
1 To be arranged  
599-2 to 9 Thesis [Consent of chairman]  
1 To be arranged  
600-1 to 48 Dissertation [Consent of chairman]  
1 To be arranged

S P E C I A L E D U C A T I O N (S P E)  
200-2 Orientation to the Education of Exceptional  
Children  
1 2:00 M W Wham 302 Gross  
406-4 Techniques and Interpretations of Hearing Tests  
1 9:00 MT ThF Comm 111 Copeland  
410a-4 Problems and Characteristics of the Emotionally  
Disturbed [Psyc 301 or 303 Or consent of  
instructor]  
1 3:00 MTWTh HEc 118 Shea  
410b-4 Problems and Characteristics of the Mentally  
Retarded [Psyc 301 or 303 or consent of  
instructor]  
1 3:00 MTWTh Comm 111  
410c-4 Problems and Characteristics of the Gifted Child  
[Psyc 301 or 303 or consent of instructor]  
1 10:00 MTWTh HEc 303 McKay  
411-4 Assessment and Remediation of Learning Disabilities  
[414 and consent of instructor]  
1 8:00 MTWTh Wham 301a  
413a-4 Directed Observation of Emotionally Disturbed  
Children [Consent of instructor]  
1 To be arranged Gross  
413b-4 Directed Observation of Mentally Retarded Children  
[Consent of instructor]  
1 10:00-12:50 M Wham 301a Rainey  
414-4 The Exceptional Child  
[Psyc 301 or 303 or consent of instructor]  
1 1:00 MTWTh Wham 302 McKay  
415-4 Education of Acoustically Handicapped Children  
[Consent of instructor]  
1 2:00 MTWTh Wham 301a Stull  
Crittenden  
419-4 Communication Problems of the Deaf and  
Hard-of-Hearing [Consent of instructor]  
See Speech Pathology and Audiology  
420a-4 Methods and Materials for Teaching Emotionally  
Disturbed [410a, and consent of instructor]  
1 4:00 MTWTh Wham 328 Shea  
420b-4 Methods and Materials for Teaching Mentally  
Retarded [410b, and consent of instructor]  
1 To be arranged Rainey  
428-4 Speech Correction for the Classroom Teacher  
See Speech Pathology and Audiology for time  
and place  
496-2 to 8 Readings and Independent Study in Special  
Education [414 and consent of instructor]  
1 To be arranged  
501-4 Special Research Problem [Consent of staff]  
1 To be arranged

577-4 to 12 Practicum [Consent of instructor &  
Sp E 410a,b, or d]  
1 To be arranged  
580a-4 Seminar: Education of Maladjusted Children  
[Sp E 414 and consent of instructor]  
1 9:00 MT Th Wham 301A Crowner  
9:00 W Wham 312  
580b-4 Seminar: Education of Mentally Retarded  
Children [414 and consent of instructor]  
1 6:30-9:00 pm T Wham 301a  
591-4 Seminar: Education of Physically Handicapped  
Children [Consent of instructor]  
1 11:00 M W Comm 214 Crittenden  
11:00 T Th Comm 112  
596-5 to 9 Independent Investigation  
1 To be arranged  
599-2 to 9 Thesis  
1 To be arranged  
600-1 to 48 Dissertation  
1 To be arranged

S P E E C H (SPCH)  
102-4 Public Speaking [GSD 103]  
1 2:00 MTWTh Comm 116  
2 3:00 MTWTh Comm 116  
104-4 Training Speaking Voice  
1 4:00 MT ThF Comm 214  
201-2 Parliamentary Law  
1 11:00 M F Comm 116 Breniman  
202-3 Principles of Discussion [GSD 103]  
1 3:00 MT Th Comm 118 Potter  
209-1 Forensic Activities  
1 To be arranged Mr. Kleinau  
301-4 Persuasion  
1 2:00 MTWTh Comm 118 Smith  
304-3 Great Speeches  
1 1:00 M W F Comm 118 Smith  
309-1 Forensic Activities  
1 To be arranged Kleinau  
323-4 Oral Interpretation II  
1 11:00 MTWThF Comm 118 Mrs. Kleinau  
401-4 Creative Dramatics  
1 9:00 MTWTh Comm 116 Criste  
407b-4 American Public Address  
1 8:00-9:50 T Th Comm 214 Bradley  
423-4 Oral Interpretation of Poetry  
1 11:00-12:50 T Th Comm 116 Mrs. Kleinau  
427-4 The Secondary School Forensics Program  
1 10:00 M WThF Comm 118 Breniman  
450b-4 Laboratory in Interpersonal Communication  
1 2:00-3:50 T Th Comm 214 Pace  
504-4 Medieval Rhetoric Theory  
1 10:00-11:50 T Th Comm 214 Bradley  
507b-3 Studies in Public Address  
1 10:00-11:50 M HEc 202 Baird,  
10:00-11:50 F Comm 214 Bradley and  
Pace  
508-4 Seminar: Studies in Discussion  
1 10:00 MT ThF Comm 116 Potter  
510-4 Seminar: Persuasion and Social Control  
1 8:00-9:50 M W Comm 214 Micken  
511b-2 Teaching the College Speech Course  
1 1:00 M W Comm 214 Smith  
530-1 to 4 Research Problems  
1 To be arranged  
532b-2 Areas and Techniques of Speech  
1 1:00 T Th Comm 214 Bradley  
599-2 to 9 Thesis  
1 To be arranged  
600-1 to 12 Dissertation  
1 To be arranged

S P E E C H P A T H O L O G Y A N D A U D I O L O G Y  
(SP PATH & AUD)  
100-0 to 2 Speech Clinic  
1 To be arranged Comm 105  
104-4 Training the Speaking Voice  
1 8:00 MT ThF Comm 111  
318-4 Voice and Cleft Palate [212]  
1 8:00 MT ThF Comm 113 Brackett

00-1 to 4 Independent Study in Pathology and  
Audiology [200, 212, 318 or consent of  
instructor]  
1 To be arranged Comm 105  
5b-2 to 4 Practicum in Speech and Hearing Therapy  
[B- average in Speech Pathology 200, 212,  
318, or consent of instructor]  
1 11:00 M Th Comm 117 Pace  
6-4 Techniques and Interpretation of Hearing Tests  
[416]  
1 9:00 MT ThF Comm 111 Copeland  
2-4 Cerebral Palsy [414 or taken concurrently]  
1 1:00 MT ThF Comm 111 Pace  
4-4 Anatomy and Physiology of Speech and Hearing  
Mechanism [Junior standing]  
1 10:00-11:50 F LS 118  
10:00 MT Th LS 113 Kaplan  
9-4 Communications Problems of Deaf and Hard of  
Hearing [416, 406, may be taken concurrently]  
1 2:00 MT ThF Comm 111 Crittenden  
8-4 Speech Correction for the Classroom Teacher  
[Junior standing]  
1 10:00 MT ThF Comm 111 Brackett  
5-1 to 4 Readings in Speech Pathology and Audiography  
[Graduate]  
1 To be arranged Comm 105  
6-4 Seminar in Psychoacoustics [416, 406, 520,  
or consent of instructor]  
1 2:00-3:50 T F Comm 117 Copeland  
1-1 to 4 Seminar in Articulation and Delayed Speech  
[200, 212, 412, 415, consent of instructor]  
1 2:00-3:50 M Th Comm 117 Brackett  
2b-1 to 4 Seminar in Organic Speech Problems:  
Teratology, Surgery, Dentistry [522a]  
1 4:00-5:50 M Th Comm 113 Koepp-Baker  
9b-1 to 4 Seminar in Stuttering Behavior [529a]  
1 4:00-5:50 T F Comm 111 Bruten  
0-1 to 4 Research Problems in Speech Pathology and  
Audiology [Graduate]  
1 To be arranged Comm 105  
3-1 to 4 Seminar in Speech Science [409]  
1 10:00-11:50 T F Comm 117 Hoshiko  
9-2 to 9 Thesis [Graduate]  
1 To be arranged Comm 105  
0-4 to 12 Dissertation  
1 To be arranged Comm 105

#### E C H N O L O G Y (TECH)

0-2 Orientation  
1 9:00 T Th TechA 111  
1a-3 Graphics  
1 8:00-9:50 M W F TechA 209  
2 10:00-11:50 M W F TechA 209  
3 1:00-2:50 M W F TechA 209  
4 3:00-4:50 M W F TechA 209  
1b-3 Graphics [101]  
1 8:00-9:50 M W F TechA 219  
2 10:00-11:50 M W F TechA 219  
3 1:00-2:50 M W F TechA 219  
4 3:00-4:50 M W F TechA 219  
5 6:00-8:50 pm M W TechA 209  
6 10:00-11:50 T Th S TechA 209  
1c-3 Graphics [101a]  
1 8:00-9:50 M W F TechA 207  
2 10:00-11:50 M W F TechA 207  
3 1:00-2:50 M W F TechA 207  
4 3:00-4:50 M W F TechA 207  
5 6:00-8:50 pm M W TechA 207  
0c-3 Applications of Fundamental Physical Principles  
[Math 111a, GSA 101a,b]  
1 2:00 M W F TechA 319  
9-3 Industrial Internship [Consent of coordinator]  
1 To be arranged  
A 358a Analysis of Physical Systems (See General  
Studies A for schedule)

#### E C H N I C A L A N D I N D U S T R I A L E D U C A T I O N (T & I ED)

2-4 Construction Methods for Primary Teachers  
1 8:00-9:50 MTWTh To be arranged  
2 1:00-2:50 MTWTh To be arranged

3 3:00-4:50 MTWTh To be arranged  
303-4 Diversified Crafts for Teachers and Recreation  
Leaders  
1 10:00-11:50 MTWTh To be arranged  
2 1:00-2:50 MTWTh To be arranged  
319-3 Industrial Internship [Consent of coordinator]  
1 To be arranged  
380-3 Special Skills in Teaching Technological Subjects  
(Metal) [12 quarter hrs of T and IED]  
1 10:00-11:50 T Th TechD 132  
419-8 to 16 Advanced Student Teaching in Technical  
Programs [Graduate standing]  
1 To be arranged  
425-2 to 8 Practicum in Technology [Consent of  
coordinator]  
1 To be arranged  
430-2 to 8 Special Problems in Industry and Technology  
[Consent of coordinator]  
1 To be arranged  
435-6 to 12 Manual Arts Internship [Consent of  
coordinator]  
1 To be arranged  
465b-4 Industrial Safety  
1 11:00 MT ThF TechA 208  
491b-3 Principles of Industrial Teaching  
1 6:00-8:30 pm T TechA 208  
494-3 Organization and Administration of Industrial  
Education  
1 6:00-8:30 pm M TechA 208  
496-3 Selection and Organization of Subject Matter  
1 6:00-8:30 pm W TechA 208  
504-4 History of Industrial and Vocational Education  
1 6:00-9:00 pm Th TechA 208  
540-4 Research in Technological Education  
1 9:00-12:00 S TechA 208  
541-4 Occupational Information and Guidance  
1 6:00-9:00 pm Th Wham 137  
570-2 to 6 Special Investigations [Consent of  
coordinator]  
1 To be arranged  
580-4 Seminar [Consent of Coordinator]  
1 6:00-9:00 pm T TechB 20  
599-1 to 9 Thesis [Consent of coordinator]  
1 To be arranged  
600-1 to 48 Dissertation [Consent of Coordinator]  
1 To be arranged

#### T H E A T E R (THEA)

111a-3 Staging Techniques  
1 3:00 MTWThF Comm 153  
111b-3 Staging Techniques  
1 3:00 MTWThF Comm 153  
203-4 Voice and Diction  
1 11:00-12:00 MTWTh Wham 137  
204-4 Acting  
1 1:00-2:50 T Th Comm 161 Harrison  
208-1 to 3 Dramatic Activities  
1 7:35-9:00 pm T Th Comm 161  
213-3 Stage Movement  
1 12:00 MTWThF Comm 161  
305-4 Stage Make-Up  
1 9:00-11:00 S Comm 143 Payne  
11:00-12:50 T Th  
308-1 to 3 Dramatic Activities [Consent of  
department]  
1 7:35-9:00 pm T Th Comm 137  
311-4 Introduction to Playwriting  
1 9:00 MTW Comm 118 Moe  
9:00 F Ag 218  
402a-4 Play Directing  
1 11:00 MTW F Comm 161  
402b-4 Play Directing [402a]  
1 1:00 MTW F Comm 137 Payne  
409-4 High School Theater and Its Production  
Problems  
1 3:00 MTWTh Comm 161 Zeeckler  
411-4 Playwriting [311 or consent of instructor]  
1 1:00 MTW Comm 120 Moe  
1:00 F Comm 214  
412-4 Stage Design  
1 9:00 MTW F Comm 242 Pavne



414-4 Costume Design  
1 10:00 MTWTh Comm 241 Harrison

432-4 Stage Lighting [111a,b, or c]  
1 4:00 MTWTh Comm 137 Hendren

505-4 The Tragic Theater  
1 2:00 M W F Ag 150 Abrams  
2:00 T Ag 148

518-4 The Theater Audience  
1 8:00 MTW Cl 25 McLeod  
8:00 Th Ag 218

526-3 Seminar in Theater Arts  
1 9:00-11:50 S L 101

530-1 to 4 Research Problems in Theater [Consent of department]  
1 To be arranged

599-1 to 9 Thesis [Consent of department]  
1 To be arranged

Z O O L O G Y (ZOOLOGY)

103-5 General Vertebrate Zoology [GSA 201]  
1 8:00 M W Ag 166 George  
8:00-9:50 T Th S LS 208  
2 8:00 M W Ag 166 George  
1:00-3:50 T Th LS 208  
3 8:00 M W Ag 166 George  
10:00-11:50 T Th S LS 208  
4 8:00 M W Ag 166 George  
3:00-4:50 M W F LS 208

202-5 Comparative Anatomy of the Vertebrates [103]  
1 8:00 T Th LS 205 Brandon  
8:00-9:50 M W F LS 208  
2 8:00 T Th LS 205 Brandon  
10:00-11:50 M W F LS 208  
3 8:00 T Th LS 205 Brandon  
12:00-1:50 M W F LS 208

316-4 Insect Pests and Their Control [GSA 201]  
1 2:00 M W LS 205 Downey  
1:00-2:50 T Th LS 213  
2 2:00 M W LS 205 Downey  
3:00-4:50 T Th LS 213

321-5 Histological Technique in Zoology [1 year of biology]  
1 10:00 W F LS 205 Martan  
10:00-11:50 T Th S LS 209

322-2 to 5 Problems in Zoology [Consent of department  
4.25 grade point average, senior standing]  
1 To be arranged

382-1/2 Zoology Seminar for Seniors [Senior standing]  
1 4:00 T LS 205 Brandon  
2 4:00 T LS G16 Englert  
3 4:00 T LS 323 George

404-2 to 8 Zoology Field Studies [Consent of instructor]  
1 To be arranged

410-5 Vertebrate Paleontology [1 year zoology including 202 or geology 221]  
1 3:00 MTWTh H 10 a Galbreath  
4:00 M W H 10 a  
2 3:00 MTWTh H 10 a Galbreath  
5:45-7:35 pm W H 10 a

413-5 The Invertebrates [1 year zoology including 102]  
1 9:00 M W LS 213 Beatty  
10:00-11:50 M W F LS 213

459-4 Game Birds [1 year zoology including 103]  
1 5:45-7:25 pm T LS 205 Krull  
8:00-11:50 S LS 204

465-4 Ichthyology [1 year zoology, consent of instructor]  
1 1:00 M W LS 205 Lewis  
1:00-2:50 T Th LS 204

508-4 Helminthology [Consent of department]  
1 3:00 T Th LS 130 Garoian  
3:00-4:50 M W LS 213

512-3 Animal Geography [Consent of department]  
1 6:00-7:25 pm M Th LS 205 Stahl

513-3 Advanced Ornithology [Consent of department]  
1 1:00-2:50 M W LS 204 Fisher

520-5 Advanced Invertebrates [Consent of department]  
1 1:00 T Th LS 130 Long  
1:00-2:50 M W F LS 130

578-4 Population Genetics [Consent of department]  
1 11:00-12:50 W F Ag 170 Englert

579-4 Animal Behavior [Consent of department]  
1 12:00 T Th LS 204 Waring  
9:00-12:50 M LS 204

581-3 Readings in Current Zoological Literature [Consent of department]  
1 8:00 M W F LS 205 Galbreath

582b-1/2 Graduate Zoology Seminar [Consent of department]  
1 4:00 Th Ag 166 Stahl

583b-1 The Teaching of Zoology in College [Consent of department]  
1 5:00 pm W LS 205 Fisher

596-3 to 12 Special Research [Consent of department]  
1 To be arranged

599-2 to 9 Research and Thesis [Consent of department]  
1 To be arranged

600-3 to 48 Research and Dissertation [Consent of department]  
1 To be arranged

# VOCATIONAL TECHNICAL INSTITUTE (VTI)

## GSA

101a-4 Introduction to Physical Science  
A1 1:00 MTWTh M3-101 Harbison  
A3 2:00 MTWTh M3-101 Collins

101b-4 Introduction to Physical Science [GSA 101a-4]  
A1 1:00 MTWTh M3-103 Harbison

## GSB

201b-4 Culture, Society, Behavior  
A1 8:00 MTWTh H4-233  
A2 12:00 MTWTh H4-233

201c-4 Culture, Society, Behavior  
A1 8:00 MTWTh H1-143  
A2 9:00 MTWTh H1-143  
A3 10:00 MTWTh H1-143  
A4 1:00 MTWTh H1-143  
A5 2:00 MTWTh H1-143  
A6 3:00 MTWTh Av Tech 1 (Av Student)

211a-4 Political Economy I  
A1 10:00 MTWTh M3-103 Choate  
A2 11:00 MTWTh M3-103 Choate  
A3 4:00 MTWTh M3-103 Choate

211b-4 Political Economy II [Aviation student]  
A1 10:00 MTWTh M1-107  
A2 11:00 MTWTh Av Tech 1  
A3 12:00 MTWTh M1-107  
A4 3:00 MTWTh M1-107  
A5 4:00 MTWTh M1-107  
A6 8:00 MTWTh M1-107

## GSD

101-3 English Composition  
A1 8:00 M W F H3-153  
A3 3:00 M W F H3-153  
A4 11:00 M W F H3-154  
A6 12:00 M W F H3-153  
A8 1:00 M W F H3-154  
A9 2:00 M W F H3-154  
A10 4:00 M W F Av Tech 1 (Av Student)

102-3 English Composition  
A1 8:00 M W F H3-154  
A2 9:00 M W F H3-154  
A3 10:00 M W F H3-154  
A4 11:00 M W F H3-154  
A5 10:00 M W F H3-153  
A6 12:00 M W F H3-154  
A7 1:00 M W F H3-153  
A8 2:00 M W F H3-154  
A9 3:00 M W F H3-154  
A10 4:00 M W F H3-154

103-3 Oral Communication of Ideas  
A1 8:00 MTWTh Av Tech 1 (Av Student)  
A2 8:00 MTWTh H9-101  
A3 10:00 MTWTh H9-101  
A4 12:00 MTWTh H9-101

A5	2:00	MTWTh	H9-101		1	8:00-10:50	MTWThF	L2-108	White
A6	4:00	MTWTh	H9-101		101b-5	Automotive Laboratory--Brakes and Steering			
M A T H E M A T I C S (MATH)									
11a-5	College Algebra and Trigonometry				1	8:00-10:50	MTWThF	L1-108	Ray
1	9:00	MTWThF	M3-103		2	11:00-1:50	MTWThF	L1-108	Jones
2	9:00	MTWThF	M1-112		101c-5	Automotive Laboratory--Ignition and Carburetion			
3	3:00	MTWThF	M1-112		1	2:00-4:50	MTWThF	L2-108	McDonald
4	3:00	MTWThF	H1-143		125a-5	Automotive Theory--Engines			
5	4:00	MTWThF	M1-112		1	11:00	MTWThF	L2-105	White
6	11:00	MTWThF	H3-151		125b-5	Automotive Theory--Brakes and Steering			
A C C O U N T I N G (ACC)									
101a-6	Accounting I				1	4:00	MTWThF	L2-105	Ray
1	8:00-9:50	MTWThF	F1-111	Kuruc	2	3:00	MTWThF	L2-105	Jones
101b-5	Accounting II [Acc 101a-6]				125c-5	Automotive Theory--Ignition and Carburetion [*AUT]			
1	8:00	MTWThF	F1-103	Markwell	1	9:00	MTWThF	L2-105	McDonald
2	9:00	MTWThF	F1-103	Vaughn	201a-5	Automotive Laboratory--Power Options [101c-5]			
3	2:00	MTWThF	F1-103	Vaughn	1	2:00-4:50	MTWThF	L2-102	
4	3:00	MTWThF	F1-103	Vaughn	201b-5	Automotive Laboratory--Transmission System			
104-5	Secretarial Accounting					[*AUT 101c-5]			
1	10:00	MTWThF	F1-103	Markwell	1	9:00-11:50	MTWThF	L2-102	Wiley
2	1:00	MTWThF	F1-103	Kuruc	201c-5	Automotive Laboratory--Diagnosis [*AUT 101c-5]			
09a-3	Calculating Machines I				1	2:00-4:50	MTWThF	L1-108	
1	10:00	MTWThF	F1-113	Johnston	220a-5	Automotive Theory--Power Options [*AUT 125c-5]			
2	11:00	MTWThF	F1-113	Johnston	1	10:00	MTWThF	L2-105	
09b-3	Calculating Machines II [VTIK 101a]				220b-5	Automotive Theory--Transmission Systems			
1	1:00	MTWThF	F1-113	Johnston		[*AUT 125c-5]			
26-3	Fundamentals of Business [Business majors only]				1	8:00	MTWThF	L2-105	Wiley
1	1:00	M W F	F1-109	Kuruc	220c-5	Automotive Theory--Diagnosis [*AUT 125c-5]			
2	2:00	M W F	F1-109	Markwell	1	1:00	MTWThF	L2-105	Shelton
104-4	Process Cost Accounting [VTIB 1304]				A V I A T I O N T E C H N O L O G Y (*AT)				
1	9:00	MTWThF	F1-108	Markwell	101-6	Reciprocating Powerplants			
2	10:00	MTWThF	F1-108	Markwell	1	9:00	M W F	Av Clm 1	Redmond
3	11:00	MTWThF	F1-108			10:00-12:50	M W F	Av Lab	
26a-4	Business Law I				102-6	Carburetion and Lubrication			
1	11:00	MTWTh	F1-109	Cundiff	1	2:00	M W F	Av Clm 2	Shafer
2	4:00	MTWTh	F1-108			9:00-12:50	T Th	Av Lab	
26a-4	Business Law II [ACC 226a-4]				103-6	Aircraft Electricity--Generator-Alternator			
1	9:00	MTWTh	F1-109	Cundiff	1	8:00	MTWThF	Av Clm 1	DaRosa
27-5	Office Administration and Supervision					9:00-10:50	M W F	Av Lab	
1	3:00	MTWThF	F1-109	Johnson	104-5	Propellers			
2	4:00	MTWThF	F1-109		1	9:00	T Th	Av Clm 2	Redmond
33-5	Federal Taxes [ACC 201a-4]					2:00	F	Av Clm 1	
1	8:00	MTWThF	F1-109	Cundiff		10:00	T Th	Av Lab	
2	10:00	MTWThF	F1-109	Cundiff		12:00-1:50	T Th	Av Lab	
35-4	Business Statistics [ACC 201a-4]				105-4	Aircraft Instruction			
1	11:00	MTWThF	F1-103	Vaughn	1	12:00	W	Av Clm 2	Shafer
2	12:00	MTWThF	F1-103			4:00	T Th	Av Clm	
3	2:00	MTWThF	F1-108			2:00-3:50	T Th	Av Lab	
4	3:00	MTWThF	F1-108		106-5	Aircraft Ignition--Starting Systems			
R C H I T E C T U R A L D R A F T I N G (*AD)									
1-b-3	Architectural Drafting [*AD 110a-5]				1	8:00	W	Av Clm 3	
1	8:00-10:50	T Th	M1-108	Lougeay		11:00	T Th	Av Clm 2	
2	8:00-10:50	T Th	M1-113	Lougeay		8:00-10:50	T Th	Av Lab	
21a-2	Architectural Design				107-4	Fabric--Wood--Doping			
1	8:00-9:50	T Th	M1-102	Lougeay	1	9:00-10:50	W	Av Clm 2	
2	10:00-11:50	M W	M1-108	Lete		12:00	Th	Av Lab	
46b-3	Freehand Architectural Graphics					1:00-3:50	T Th	Av Lab	
1	1:00-3:50	T Th	H1-144	Lete	108-6	Jet Propulsion Powerplant			
2	1:00-3:50	T Th	H3-147	Rutledge	1	11:00	W	Av Clm 2	DaRosa
21b-4	Architectural Design					1:00	M W F	Av Clm 1	
1	8:00-10:50	M W F	M1-113	Little		2:00-3:50	M W F	Av Lab	
2	2:00-4:50	M W F	M1-108	Little	109-4	Powerplant Testing [1st and 2nd quarters]			
21c-4	Architectural Design				1	11:00	M F	Av Clm 2	Shafer
50b-4	Materials and Methods Construction					8:00-10:50	M F	Av Lab	
1	1:00-3:50	M W F	M1-113	Rutledge	110-3	Aircraft Structure and Repair			
2	10:00-12:50	M W F	H1-144	Lete	1	8:00	Th	Av Clm 2	
83-3	Construction and Cost Estimating [*AD 250a]					4:00	T Th	Av Clm 2	
1	10:00	T	M1-112	Bassett	203-5	Aerodynamics			
	9:00-10:50	Th	M1-112	Bassett	1	2:00	W F	Av Clm 1	
2	8:00-9:50	T	M1-112	Bassett		10:00-11:50	M F	Av Lab	
	8:00	Th	M1-112	Bassett	204-5	Aircraft Hydraulics			
90a-3	Theory of Structures [VTID 250a]				1	1:00	M W F	Av Clm 2	
1	1:00	M W F	M1-112	Bassett		2:00-4:50	M W F	Av Lab	
2	11:00	M W F	M1-112		2	1:00	M	Av Clm 3	
U T O M O T I V E T E C H N O L O G Y (*AUT)									
101a-5	Automotive Laboratory--Engines					2:00-4:50	M W F	Av Lab	
					205-3	Pressurization, Air Conditioning Systems			
					1	2:00	T Th	Av Clm 1	
						11:00-12:50	W	Av Lab	
					206-4	Metal and Processing			
					1	12:00	T Th	Av Clm	
					2	1:00	T Th	Av Clm 3	
						2:00-4:50	T Th	Av Lab	

208-2 Aircraft Fuel Systems  
 1 2:00 Th Av Clm 2  
 8:00-9:50 T Av Lab  
 209-6 Weight and Balance and Inspection  
 1 10:00 MTWThF Av Clm 1  
 8:00-9:50 M W F Av Lab  
 217-1 Radio Operation and Installation  
 1 12:00 F Av Clm 3  
 2:00-3:50 F Av Lab  
 2 12:00 F Av Clm 3  
 2:00-3:50 F Av Lab  
 220-3 Jet Transport Aircraft Systems  
 1 11:00 F Av Clm 1  
 2:00 T Av Clm 2  
 8:00-9:50 Th Av Lab  
 1:00 F Av Clm 1  
 230a-2 Private Pilot Ground School  
 1 To be arranged To be arranged  
 230b-1 Private Pilot--Flight  
 1 To be arranged To be arranged  
 231-3 Basic Flight  
 1 To be arranged To be arranged  
 233-3 Advanced Flight  
 1 To be arranged To be arranged  
 234-3 Instrument Flight  
 1 To be arranged

#### BUILDING CONSTRUCTION (\*BC)

210a-3 Construction  
 1 1:00 M W F H1-144 Bassett

#### COMMERCIAL ART (\*CA)

125-10 Techniques  
 1 1:00-4:50 MTWThF L3-119 Swayne  
 130-10 Advanced Design and Production [\*CA 125]  
 1 8:00-11:50 MTWThF L3-119 Hoffman  
 210b-7 Advertising Story Illustrations [\*CA 230a]  
 1 8:00-11:50 MTWThF L3-120 Ruyle  
 2 1:00-4:50 MTWThF L3-120 Boza  
 230b-7 Technical Illustration [230a]  
 1 8:00-11:50 T Th L3-120 Ruyle  
 2 1:00-4:50 T Th L3-120 Boza

#### CORRECTION AND LAW

ENFORCEMENT (\*CLE)  
 103-4 Introduction to Crime Control  
 1 To be arranged  
 105-4 Criminal Behavior  
 1 To be arranged  
 109-3 Correctional Institutions as a Social System  
 1 To be arranged

#### COSMETOLOGY (\*COS)

101b-7 Cosmetology Laboratory [COS 101a-7]  
 1 11:00-1:50 MTWThF N1-107 Hill  
 3:00-5:50 MTWThF N1-101 Hill  
 2 8:00-10:50 MTWThF N1-107 Goss  
 2:00-4:50 MTWThF N1-107 Goss  
 101c-7 Cosmetology Laboratory  
 1 8:00-10:50 MTWThF N1-101 Taylor  
 12:00-2:50 MTWThF N1-101 Taylor  
 125b-5 Cosmetology Theory  
 1 10:00 MTWThF N1-106 Blanton  
 2 12:00 MTWThF N1-106 Blanton  
 125c-5 Cosmetology Theory  
 1 3:00 MTWThF N1-106 Blanton

#### DENTAL HYGIENE (\*DH)

210b-5 Clinical Dental Hygiene  
 1 1:00-3:50 MTW F F3-132  
 12:00 F F1-110  
 2 9:00-11:50 MTW F F3-132  
 12:00 F F1-110  
 213b-3 Dental Assisting  
 1 1:00-3:50 Th F3-144  
 218c-2 Dental Roentgenology  
 1 10:00-11:50 Th F1-110 Bushee  
 2 8:00-9:50 Th F1-110 Bushee  
 132b-4 Head and Neck Anatomy [VTIY 132a]

1 10:00-11:50 M W F F3-143  
 9:00 M W F F1-110  
 2 2:00-3:50 M W F F3-143  
 9:00 M W F F1-110  
 135b-4 Oral Basic Science  
 1 2:00-3:50 M W F F3-144 Bushee  
 2 10:00-11:50 M W F F3-144 Bushee  
 137a-4 Pre-Clinical Dental Hygiene  
 1 9:00-11:50 T Th F3-143  
 2 1:00-3:50 T Th F3-143

#### DATA PROCESSING (\*DP)

100b-4 Data Processing Math  
 1 1:00 MTWTh H4-233 Robb  
 2 4:00 MTWTh H8-140 Robb  
 101a-3 Automatic Data Processing Machines  
 1 1:00 MTWThF H8-140 Humphreys  
 101b-5 Automatic Data Processing Machines [\*DP 101a]  
 1 8:00-9:50 MTWThF H8-140 Humphreys  
 2 11:00-12:50 MTWThF H8-140 Dick  
 3 2:00--3:50 MTWThF H8-140 Dick  
 202b-5 Scientific Computer Program [\*DP 202a]  
 1 11:00-12:50 MTWThF H8-235 Humphreys  
 203b-5 Business Computer Program [\*DP 203]  
 1 8:00-9:50 MTWThF H8-235  
 2 3:00-4:50 MTWThF H3-235  
 206a-3 Programming Systems [\*DP 103]  
 1 10:00 MTWThF H4-233 Robb  
 2 2:00 MTWThF H4-233

#### DENTAL LAB TECHNOLOGY (\*DT)

101b-6 Dental Prosthetics Laboratory  
 1 1:00-3:50 M W F F30128 Pennock  
 1:00-4:50 T Th  
 113-3 Science of Dental Materials  
 1 8:00 M W F F1-106 Harbison  
 125b-3 Dental Prosthetics Theory  
 1 4:00 M W F F1-110 Leebens  
 201b-6 Crown and Bridgework  
 1 9:00-11:50 M W F F3-127 Christy  
 8:00-11:50 T Th  
 2 8:00-10:50 M W F F3-128 Bykowski  
 8:00-11:50 T Th  
 225b-3 Crown and Bridge Theory  
 1 8:00 M W F F1-110 Christy  
 2 11:00 M W F F1-110 Bykowski

#### ELECTRONICS TECHNOLOGY (\*ELT)

101b-5 Vacuum Tube and Transistor Laboratory [ELT 101a]  
 1 8:00-9:50 MTWThF M3-109 Becker  
 2 8:00-9:50 MTWThF M3-112  
 125b-5 Vacuum Tube and Transistor Theory [\*ELT 125a]  
 1 12:00 MTWThF M3-110  
 2 3:00 MTWThF M3-110  
 129-3 Electrical Circuits  
 1 10:00 M W F M3-109  
 2 10:00 M W F M3-112  
 201b-4 Pulse and Microwave Laboratory [\*ELT 201a]  
 1 10:00-11:50 MTWThF M3-112  
 2 2:00-3:50 MTWThF M3-112  
 225b-5 Pulse and Microwave [ELT 225a]  
 1 9:00 MTWThF M3-110  
 2 9:00 MTWThF M3-110  
 232-3 Industrial Circuits [ELT 225a]  
 1 1:00 M W F M3-110

#### FOREST PRODUCTS (\*FP)

101b-5 Product Woodworking Laboratory  
 1 9:00-11:50 M W F L4-108 Osborn  
 8:00-10:50 T Th L4-108  
 125b-3 Product Woodworking Theory  
 1 8:00 M W F L4-106 Osborn  
 130-3 Lumber Seasoning  
 1 9:00 M W F L4-106 Rice  
 178-3 Basic Wood Drafting  
 1 2:00-3:30 M F L4-106 Olson  
 2:00 W L4-106  
 201b-5 Product Woodworking Laboratory  
 1 2:00-4:50 MTWThF L4-108 Rice



5b-3	Product Woodworking Theory					1	11:00-1:50	MTWThF	M1-101	Muhich
1	1:00	M W F	L4-106	Rice	226-3	Statics and Strength of Materials				
E N E R A L (*GEN)					1	9:00	M W F	M1-112	Lampman	
2-3	Technical Writing				2	10:00	M W F	M1-112	Lampman	
1	9:00	M W F	H3-153	Crowe	P R A C T I C A L N U R S I N G (*P N)					
2	1:00	M W F	M3-103		102-7	Practical Nursing--Role I [*PN 101]				
3	4:00	M W F	Av Tech 3 (Av Student)		1	8:00-11:50	M	H5-210		
4	12:00	M W F	M3-103			1:00-3:50	MTWThF	H5-210		
6-0	Elementary Mathematics					8:00-11:50	TWThF	Hospital		
1	12:00	MTWTh	H1-143		103a-6	Clinical Theory and Nursing I [*PN 102]				
7-3	Technical Math				1	TBA	MTWThF	Hospital		
1	9:00	M W F	H3-151			1:00-3:50	M W F	H9-201		
2	10:00	M W F	H3-151		103b-12	Clinical Nursing & Theory II				
3	1:00	M W F	H3-151		1	TBA	MTWThF	Hospital		
4	3:00	M W F	Av Tech 3 (Av Student)			1:00-3:50	M W F	H9-201		
5b-2	Introduction to Chemistry [*GEN 115a]				P R I N T I N G T E C H N O L O G Y (*PT)					
1	1:00	M W F	F3-144		101b-6	Automatic Platen--Lab				
8-4	Applied Calculus [GSD 114c]				1	11:00-1:50	MTWThF	L3-110	Britt	
1	9:00	MTWTh	H9-101		125b-3	Automatic Platen--Theory				
0-4	Basic Applied Physics [GSA 101a]				1	10:00	M W F	L3-109	Britt	
1	8:00	M W	M3-101		153-3	Layout and Design				
	8:00-9:50	T Th	M3-101		1	2:00	M W F	L3-109	Britt	
1-5	Introduction to Physiology				201b-6	Linotype, Ludlow--Lab [PT 201a]				
1	8:00	MTWThF	F3-144		1	8:00-10:50	MTWThF	L3-110	Cornell	
1-2	Job Orientation--Automotive				225b-3	Linotype, Ludlow--Theory				
1	1:00	T Th	L1-105	Jones	1	11:00	M W F	L3-109	Cornell	
1-2	Job Orientation--Retailing				C O O P E R A T I V E R E T A I L I N G (*RET)					
2	1:00	T Th	Fl-106		124-4	Introduction to Retailing				
1-2	Job Orientation--Business				1	9:00	MTWTh	Fl-112	Thompson	
3	10:00	M W	Fl-121	Johnston	127b-3					
4	3:00	M W	Fl-111	Johnston	1	9:00	M W F	Fl-106	Elder	
1-2	Job Orientation--Architecture				176-3	Product Analysis				
5	1:00	T Th	M1-112		1	1:00	M W F	Fl-112	Thompson	
2-4	Labor Management Relations				177a-5	Product Information Lab				
1	2:00	MTWTh	Fl-111		1	10:00-11:50	MTWThF	Fl-112	Thompson	
I G H W A Y A N D C I V I L T E C H N O L O G Y (*HCT)					177b-5	Product Information Lab				
1a-5	Surveying				1	2:00-3:50	MTWThF	Fl-112	Elder	
1	To be arranged				206-5	Records and Statistics				
1b-3	Surveying				1	10:00	MTWThF	Fl-111	Burnett	
1	To be arranged				207b-2	Sales Promotion				
3-2	Basic Materials				1	9:00	T Th	Fl-106	Elder	
1	To be arranged				227-3	Personnel Management				
5a-3	Structural Drafting				1	1:00	M W F	Fl-106	Burnett	
1	To be arranged				S E C R E T A R I A L (*SCR)					
7-3	Soils				100-3	Clerical Procedures				
1	To be arranged				1	10:00	M W F	Fl-110		
9-3	Portland Cement				101b-3	Typewriting II [SCR 101a]				
1	To be arranged				1	11:00	MTWThF	Fl-121	Norman	
O R T U A R Y S C I E N C E (*MS)					2	12:00	MTWThF	Fl-121	Norman	
1b-3	The Funeral: Customs				3	1:00	MTWThF	Fl-121	Reed	
1	8:00	M W F	L3-109	Thorsell	4	2:00	MTWThF	Fl-121	Norman	
0-4	Embalming Chemistry [GEN 115]				5	3:00	MTWThF	To be arranged		
1	1:00	M W F	L3-109						Reed	
	2:00	M W F	L3-106	Thorsell	104b-6	Shorthand II [SCR 104a]				
5b-3	Pathology [MS 205a]				1	8:00	MTWThF	Fl-108	Norman	
1	4:00	M W F	L3-109	Hertz		9:00	MTWThF	Fl-107	Norman	
5a-5	Embalming Theory and Practice [MS 203]				2	10:00	MTWThF	Fl-106	Reed	
1	3:00	M W F	L3-109			11:00	MTWThF	Fl-107	Reed	
	2:00-4:50	T Th	L3-106		3	1:00	MTWThF	Fl-108	Garrison	
A C H I N E D R A F T I N G A N D D E S I G N T E C H N O L O G Y (*MT)						2:00	MTWThF	Fl-107	Garrison	
1b-7	Graphics				4	3:00-4:50	MTWThF	To be arranged		
1	8:00-10:50	MTWThF	M1-101	Beauchamp	5	1:00-2:50	MTWThF	Fl-102		
2	2:00-4:50	MTWThF	M1-101	Lampman	107-3	Filing and Duplicating [SCR 101a]				
7-3	Hydraulic and Pneumatic Controls				1	8:00	MTWThF	Fl-121		
1	2:00	M W F	L1-105	Beauchamp	2	9:00	MTWThF	To be arranged		
5a-3	Technical Drawing				120b-6	Machine Shorthand 2				
1	9:00	MTWThF	H3-147		1	3:00-4:50	MTWThF	Fl-107	McInturff	
2	2:00	MTWThF	M1-112		205b-3	Typewriting V [SCR 205a]				
3	3:00-4:50	M W	Av Tech 3 (Av Student)		1	8:00	MTWThF	Fl-107	Garrison	
	3:00	F			2	10:00	MTWThF	Fl-107	Miriani	
5b-3	Technical Drawing				3	10:00	MTWThF	Fl-102	McInturff	
1	11:00	MTWThF	H3-147		4	12:00	MTWThF	Fl-107		
2	12:00	MTWThF	H3-147		214-2	to 5 Cooperative Secretarial Experience				
1b-5	Machine Drafting and Design				1	To be arranged				
					224-6	Legal Shorthand [*SCR 209a]				
					1	11:00-12:50	MTWThF	Fl-102	Reed	

2	3:00-4:50	MTWThF	Fl-121	Miriani
3	8:00-9:50	MTWThF	Fl-121	Reed
4	6:00-8:30	T Th	To be arranged	
				Miriani
225a-6	Medical Shorthand I [*SCR 209a]			
1	8:00-9:50	MTWThF	Fl-102	Tooley
2	12:00	MTWThF	Fl-108	Tooley
	1:00	MTWThF	Fl-107	

# TOOL AND MANUFACTURING TECHNOLOGY (\*TT)

101b-5	Machine Tool Lab			
1	8:00-10:50	MTWThF	L1-101	
2	2:00-4:50	MTWThF	L1-101	Crookshank
125b-3	Machine Tool Theory			
1	11:00	M W F	L1-105	
2	12:00	M W F	L1-105	Crookshank
175-3	Basic Machine Shop			
1	7:30-10 pm	T Th	L1-105	Crookshank
176b-3	Manufacturing Processing			
1	1:00	M W F	L1-105	
2	10:00	M W F	L1-105	
201a-3	Advance Machine Tool Lab			
1	11:00-1:50	M W F	L1-101	Traylor
201b-3	Advance Machine Tool Lab			
1	11:00-12:50	MTWThF	L1-101	Traylor

225b-3	Advance Machine Tool Theory			
1	9:00	M W F	L1-105	Traylor
275a-3	Metallurgy			
1	11:00	MTWThF	M4-102	Dallman
275b-3	Metallurgy			
1	9:00	MTWThF	M4-102	Dallman
2	4:00	MTWThF	M4-102	Dallman
3	3:00	MTWThF	M4-102	Dallman
275c-3	Metallurgy			
1	2:00	MTWThF	M4-102	Dallman

# WELDING (\*WEL)

101a-5	Welding Laboratory--Oxy and Acetylene			
1	8:00-10:50	MTWThF	M4-107	Williams
101b-5	Welding Lab--Arc			
1	8:00-10:50	MTWThF	M4-108	Tregoning
101c-5	Welding Lab--Arc [VTIW 101b]			
1	8:00-10:50	MTWThF	M4-108	Tregoning
125a-5	Welding Theory--Oxy and Acetylene			
1	1:00	MTWThF	M4-108	Williams
125b-5	Welding Theory--Arc			
1	1:00	MTWThF	M4-102	Tregoning
125c-5	Welding Theory			
1	2:00	MTWThF	M4-108	Tregoning
175-3	Oxy and Acetylene and Electric Arc Welding			
1	11:00	MTWThF	M4-108	Williams
2	2:00-3:50	M W F	Av Lab	





**Southern Illinois University Bulletin**  
Carbondale, Illinois 62901  
Return Requested

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*Schedule of Classes*  
*Edwardsville Campus*  
*Winter Quarter, 1968*



**Southern Illinois  
University Bulletin**

## This Bulletin

contains the schedule of classes to be offered by the Edwardsville Campus for the 1968 winter quarter at Edwardsville, Alton, and East St. Louis. It also provides information relative to admission, advisement, registration, and fees.



# Schedule of Classes

*Edwardsville Campus*

*Winter Quarter, 1968*

# Contents

University Calendar .....	ii
Registration Calendars .....	iv
GENERAL INFORMATION .....	1
Guaranteed Center Schedules .....	1
Admission .....	1
Social Security Number .....	1
Required Tests .....	2
Advisement .....	2
Required Physical Examinations .....	3
Registration .....	3
New Students .....	3
Re-Entering Students .....	3
Current Students, Edwardsville Campus .....	4
Current Students, Carbondale Campus .....	4
Payment of Fees .....	4
Fees for a Regular Quarter .....	5
Academic Load .....	5
Prerequisites .....	5
Auditing of Courses .....	6
Registering for and Dropping Courses .....	6
Changing Fee Status .....	7
Withdrawal from School .....	7
Cancellation of Registration .....	7
Personal Data Changes .....	7
Hospitalization .....	8
SCHEDULE OF CLASSES .....	9
Explanation of the Schedule .....	9
Final Exam Schedule .....	11
Winter Classes .....	13

# University Calendar, 1967-1968

## *Fall Quarter, 1967*

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Vacation	Tuesday, 10:00 P.M.–Monday 8:00 A.M., November 21–27
Final Examinations	Monday–Saturday, December 11–16

## *Winter Quarter, 1968*

Quarter Begins	Tuesday, January 2 (4:30 P.M.)
Final Examinations	Monday–Saturday, March 11–16

## *Spring Quarter, 1968*

Quarter Begins	Monday, March 25 (4:30 P.M.)
Memorial Day Holiday	Thursday, May 30
Final Examinations	Monday–Saturday, June 3–8
Commencement (Carbondale)	Friday, June 7
Commencement (Edwardsville)	Saturday, June 8

## *Summer Quarter, 1968*

Quarter Begins	Monday, June 17
Independence Day Holiday	Thursday, July 4
Final Examinations	Monday–Friday, August 26–30
Commencement (Carbondale)	Friday, August 30
Commencement (Edwardsville)	Saturday, August 31



# Registration Calendars

## *Winter Quarter, 1968*

### *EDWARDSVILLE CAMPUS*

Registration will be held in the Enrollment Office, 1302 Peck Classroom Building.

Oct. 2–Jan. 2	General Studies Advisement, by appointment.
Nov. 20–22	Registration by appointment.
Nov. 24–Dec. 2	Mon.–Fri. 8:00 A.M.–noon, 1:00–4:00 P.M.; Sat. 8:00–11:00 A.M.
Dec. 6–9	
Dec. 20–22	Registration. No appointment necessary.
Dec. 26 & 29	Hours as above.
Jan. 2	Central registration. 8:00 A.M.–6:30 P.M.

### *ALTON CENTER*

Registration will be held in the Student Union.

Dec. 4 & 5	Registration. 8:00 A.M.–noon, 1:00–7:00 P.M.
Dec. 27	Central registration. 8:00 A.M.–7:00 P.M.

### *EAST ST. LOUIS CENTER*

Registration will be held in ESL 103.

Dec. 11 & 12	Registration. 8:00 A.M.–noon, 1:00–7:00 P.M.
Dec. 28	Central registration. 8:00 A.M.–7:00 P.M.

### *ALL LOCATIONS*

Jan. 2	Evening classes (4:30 P.M. or later) begin.
Jan. 3	Day classes begin.
Jan. 8	Last day to add a class.
Jan. 15	Last day to be eligible for a refund of fees.
Jan. 29	Last day to withdraw from a class without receiving a grade.
Feb. 28	Last day to withdraw from school or a class.

# General Information

1

THIS BULLETIN contains the schedule of classes to be offered at the Edwardsville Campus and the Alton and East St. Louis centers for the winter quarter of the 1967-68 school year. It also provides information relative to advisement and registration, fees, and allied information.

The Edwardsville Campus provides a full schedule of class offerings for day and evening students. Freshman and sophomore courses are scheduled for day and evening students at the Alton and East St. Louis centers.

## *GUARANTEED CENTER SCHEDULES*

A program of Guaranteed Schedules for the centers has been established. Certain courses and sections at the centers are guaranteed on schedules extending through the fall, winter, and spring quarters. These classes will not be cancelled; they are coordinated to offer a variety of full-time academic programs for the incoming freshman as a day student, and they permit efficient progress for the new freshman evening student.

Classes at the centers marked with a ★ in the schedule are part of this program. For details concerning the full year's schedules, see the separate brochure for each center.

## *ADMISSION*

Inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office at Edwardsville. Applications for admission are accepted at any time during the calendar year but should be initiated at least 30 days prior to the start of the quarter which the student plans to attend.

A student must be officially admitted to the University before registration for classes will be permitted. Students who have not completed the admission requirements by the first day of the quarter will not be permitted to register. A student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

## *SOCIAL SECURITY NUMBER*

Each student seeking admission to the University will

need to present a social security number for identification purposes. Any local social security office can provide assistance in obtaining a number or replacing a lost card. At Alton the social security office is at 1623 Washington Street; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment Office, 111 West Vandalia, provides social security information.

## *REQUIRED TESTS*

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in October, December, February, May, and August. Information and application blanks are normally available through the high school guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores, which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

## *ADVISEMENT*

The advisement system requires all new students to have initial advisement through the General Studies Advisement Office. These offices are maintained at each of the centers for the convenience of the student. Freshmen and sophomores will continue to be advised each quarter prior to registration. Following the student's declaring a major (between reaching 64 and 96 hours of credit), the student is assigned to an adviser in his concentration area. Each student is required to declare a concentration upon achieving 96 hours of credit. Probationary students are also required to receive advisement prior to registration.

Graduate students, both classified and unclassified, must have their schedule approved at the Graduate Office before registering.

Students with a declared major in the Business or



Education Divisions must receive advisement from the Division office prior to registering.

All students should arrange to have advisement early to be sure their schedules will be approved before their registration.

## REQUIRED PHYSICAL EXAMINATIONS

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.

## REGISTRATION

Students may register at Edwardsville for classes at any location (see Edwardsville Registration Calendar, p. iv). Students wishing classes at the Alton or East St. Louis Centers, or at a Center and at Edwardsville, may register at that Center during the periods listed on the applicable Registration Calendar. All General Studies students are required to have approval of their schedule by the General Studies Advisement Office.

During the registration process the student goes to the enrollment office where the assignment is made to specific sections of the courses he is to take.

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class.

## NEW STUDENTS

Students entering the University for the first time are permitted to register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

Dates for new undergraduate students, freshmen and transfer, will be selective ones in which the students are asked to come to the campus on specific registration dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted. Appointments for registration will be mailed from the Registrar's Office.

New graduate students after advisement may register during the registration period from November 20 through December 12 and December 20 through January 2. Arrangements should be cleared with the Graduate School to assure that the appropriate adviser will be available before coming to the campus.

## RE-ENTERING STUDENTS

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to register

during the periods outlined in the Registration Calendar. Readmission procedures must be completed prior to registration.

### *CURRENT STUDENTS, EDWARDSVILLE CAMPUS*

For admittance to registration students previously enrolled must present their Southern Illinois University ID cards. No one will be permitted to register without an ID card. Each student currently registered in the University will be continued in his present course of study unless a change of concentration is made. A change of concentration is initiated with the chief academic adviser. The change should be made at the time of advisement; the registrar's copy of the change form should accompany the student's registration. A change of concentration made after a registration has been processed will not be reflected in the student's record until the next registration.

Upperclass students who have declared a concentration and who are currently registered in the University may be self-advised for registration purposes. This does not apply to Business Division or Education Division students. Academic advisement is available and is very desirable. The student should prepare his desired program of classes at each registration period and process through the sectioning area of the enrollment office in accordance with the time of his appointment in order to best achieve the desired schedule of classes and time periods.

### *CURRENT STUDENTS, CARBONDALE CAMPUS*

A student currently enrolled in and attending classes on the Carbondale Campus who desires to register on the Edwardsville Campus will initiate his registration at the sectioning area of the enrollment center in Edwardsville in accordance with the registration calendar except that he may register on the first day of the quarter. Each student will complete the intra-university transfer data form to secure information necessary for the Edwardsville data processing center preparation of registration materials. The student who registers on the first day of the quarter should present his most recent grade report to confirm scholastic eligibility to register.

For the purpose of advisement, the student may wish to have a copy of his transcript sent to the Edwardsville Campus prior to registration.

### *PAYMENT OF FEES*

All fees are payable at the time of registration. Upon payment of fees, the fee statement and receipt card will be stamped by the Business Office and returned to the student as a fee receipt. The card should be carried at all times. It serves as official authorization to attend classes as scheduled and must be presented to obtain books and activity cards and to process program changes.

Students unable to pay fees at the time of registration

may secure short-term loans from the Student Work and Financial Assistance Office. This must be done before registering.

### F E E S   F O R   A   R E G U L A R Q U A R T E R

On June 29, 1967, the Board changed the fees for students taking fewer than 11 hours. The new fee schedule becomes effective with the winter quarter, 1968 (fees assessed during the fall quarter, 1967). The new fee schedule follows:

	<i>Not more than 5 hrs.</i>	<i>More than 5, less than 11</i>	<i>11 or more</i>
Tuition Fee—Illinois			
Resident .....	\$14.00	\$28.00	\$42.00
Tuition Fee—Out of			
State .....	(30.00)	(115.00)	(172.00)
Student Welfare and			
Recreation Building			
Trust Fund Fee .....	5.00	10.00	15.00
Book Rental Fee .....	3.00	6.00	8.00
Student Activity Fee .....	3.50	7.00	10.50
University Center Fee .....	5.00	5.00	5.00
Total—Illinois Resident ....	\$30.50	\$56.00	\$80.50
Total—Out of State			
Resident .....	(46.50)	(143.00)	(210.50)

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status. Prior to registration this student will go to the Student Work and Financial Assistance Office to secure certification.

### A C A D E M I C   L O A D

The normal class load is 16 quarter hours for undergraduate students and 12 quarter hours for graduate students. The maximum load for both is 18 hours. A student with a 4.25 average or above for the preceding quarter may be allowed by the chief academic adviser or by the dean of his division to take as many as 21 hours. In no case may a student carry or be credited with more than 21 hours in any quarter. A student on probation may not take more than 14 hours.

A person should not register for more than 8 hours if he is employed full time.

The Selective Service System requires a minimum of 12 hours to qualify for a student deferment. There is a further requirement that he complete 48 hours each year.

The National Defense Education Act requires a minimum of 12 hours to qualify for a student loan.

### P R E R E Q U I S I T E S

Students are responsible for checking course prerequisites



in the undergraduate and graduate catalogs and in this class schedule. Those who do not have specific prerequisites for a course may register for it only if they have had a comparable course or have written consent of the instructor.

## AUDITING OF COURSES

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter.

## REGISTERING FOR AND DROPPING COURSES

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program adjustment be approved permitting registration in that class. A student is officially registered only for those courses and sections appearing on his registration cards. Changes can be made only after fees are paid and must be made through an official program change.

A student desiring to make a program change must secure approval of his adviser. He will then go to the Enrollment Center. (A student at East St. Louis or Alton may initiate his request to drop a course by going to the General Office.) He is required to present his fee receipt program card and must complete the following procedure. (1) After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. (2) The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. (3) A student has not completed his program change until he presents it to the Enrollment Center. **NO CHANGE IS OFFICIAL UNTIL THE PRECEDING PROCEDURE IS COMPLETED.**

A student who finds it necessary to make an adjustment to his program by adding or dropping a course may do so during normal office hours at the Edwardsville Enrollment Office. (No changes will be made on the first day of the quarter.) A program adjustment must be made to drop or add a course. A student may not drop a course merely by stopping attendance. Failure to officially drop a course may result in academic penalty.

## CHANGING FEE STATUS

Students making program changes which result in their changing from one fee status to a higher fee status will be assessed additional tuition and fees. Students changing from a higher fee status to a lower fee status may apply for a refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendars on page iv.

## WITHDRAWAL FROM SCHOOL

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who registers and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

## CANCELLATION OF REGISTRATION

A registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of Student Affairs.

## PERSONAL DATA CHANGES

Changes in personal data should be reported promptly. Types of change and method of reporting are:

1. ADDRESS CHANGES. Should be reported immediately either at the time of registration or at the Enrollment Office.
2. NAME CHANGES. Should be made at the Enrollment Office. Verification is required.
3. MARITAL STATUS CHANGES. Should be made at the Enrollment Office.

4. LEGAL RESIDENCE CHANGES (whether an Illinois or out-of-state resident.) Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

## HOSPITALIZATION

Blue Cross and Blue Shield In-hospital Insurance is offered to all students. Cost is \$5.60 per quarter for single and \$14.70 per quarter for family plan. This is available at the time of registration.



# Schedule of Classes

2

*Except for the Guaranteed Center Schedules, the University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.*

## EXPLANATION OF THE SCHEDULE

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:

**Bold-Face Line:** The course's identification number is followed by the number of quarter hours of credit and the descriptive title. Following the title, a dotted line separates the title from the prerequisite, if any, which appears at the right-hand end of the line and may continue to the second line.

**Light-Face Lines:** The first column lists the section numbers (first digit always 0) for classes offered at Edwardsville; the second lists sections (first digit always 2) for classes offered at Alton; the third lists sections (first digit always 4) offered at East St. Louis. Following each section number are the time the class begins (between 7:00 A.M. and 4:20 P.M. for daytime classes) and the time it ends. The section number of each evening class has the letter E prefixed. A ★ indicates a section which is part of the Guaranteed Center Schedule and is not subject to cancellation. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

- 000-099 Courses not properly falling in the following categories
- 100-199 For freshmen
- 200-299 For sophomores
- 300-399 For juniors and seniors
- 400-499 For seniors and graduate students
- 500-600 For graduate students only

Students registering for courses listed as "Arranged" should consult the instructor indicated, or the dean of the division if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

ANA	—Annex A—Alton
CB	—Communications Bldg.—Edwardsville
ESL	—East St. Louis Center
Gym	—Gymnasium—Alton
HUM	—Humanities Building—Alton
LB	—Lovejoy Memorial Library— Edwardsville
PB	—John Mason Peck General Classroom Building—Edwardsville
SCI	—Science Building—Alton
SL	—Science Laboratory Building— Edwardsville
397	—Cartography Laboratory—East St. Louis
UC	—University Center—Edwardsville
Wagner	—Wagner Building—Edwardsville

March 11-16, 1968

	Mon. Mar. 11	Tues. Mar. 12	Wed. Mar. 13	Thurs. Mar. 14	Fri. Mar. 15	Sat. Mar. 16
8:00 to 9:40	All classes beginning at 8:30, except Tu and/or Th only.	Classes beginning at 8:30 Tu and/or Th only	Classes beginning at 9:30, Tu and/or Th only	All classes beginning at 9:30, except Tu and/or Th only		At regular class sessions
10:00 to 11:40	Classes beginning at 10:30 Tu and/or Th only	All classes beginning at 11:30, except Tu and/or Th only	All classes beginning at 10:30, except Tu and/or Th only	Classes beginning at 11:30, Tu and/or Th only	Make-up	
12:20 to 2:00	All classes beginning at 1:30, except Tu and/or Th only	All classes beginning at 12:30, except Tu and/or Th only	Multiple-Section Block (Speech) See Announcement	Classes beginning at 1:30 Tu and/or Th only	Classes beginning at 12:30 Tu and/or Th only Make-up	
2:20 to 4:00	Classes beginning at 2:30 Tu and/or Th only	Classes beginning at 3:30 Tu and/or Th only	All classes beginning at 3:30, except Tu and/or Th only	All classes beginning at 2:30, except Tu and/or Th only	Make-up	
Evening Classes	At regular sessions					





Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					

## MAN'S PHYSICAL ENVIRONMENT AND BIOLOGICAL INHERITANCE (GSA)

### 101a-5 Introduction to Physical Science ..... GSD 106 or satis. score on place. test

Student enrolls in lecture and one lab.

(Lab and Friday lecture meet every other week.)

Lect A	1:30-2:20	MTuWThF	SL 1105	Shaw
Lab 001	2:30-4:20	M	SL 1218	
Lab 002	8:30-10:20	Th	SL 1218	
Lab 003	8:30-10:20	Tu	SL 1218	
Lab 004	10:30-12:20	F	SL 1218	
Lab 005	10:30-12:20	Tu	SL 1218	
Lab 006	10:30-12:20	Th	SL 1218	
Lab 007	2:30-4:20	Tu	SL 1218	
Lab 008	8:30-10:20	W	SL 1218	
Lab 009	2:30-4:20	Th	SL 1218	
Lab 010	2:30-4:20	W	SL 1218	
★Lect E B	6:00-8:20	M W	SCI 200	Zurheide
★Lab E201	6:00-8:20	F	SCI 007	
Lab E202	9:00-11:20	S	SCI 007	

### 101c-3 Introduction to Physical Science ..... 101a or b

Lect A	3:30-4:20	Tu Th	SL 1105	Stallard
Lab 001	3:30-5:20	M	SL 1209	
Lab 002	3:30-5:20	W	SL 1209	
Lab 003	12:30-2:20	Tu	SL 1209	
Lab 004	12:30-2:20	Th	SL 1209	
Lab 005	8:30-10:20	M	SL 2215	
Lab 006	8:30-10:20	F	SL 2215	
★Lect B	8:30-9:20	TuW	SCI 200	
★Lab 201	8:30-10:20	Th	SCI 205	
Lab 202	9:30-11:20	Tu	SCI 205	
★Lect C	8:30-9:20	TuW	ESL 212	Stallard
★Lab 401	8:30-10:20	Th	ESL 125	
Lab 402	9:30-11:20	W	ESL 125	

### 110a-4 The Earth and Its Environment .....

Lect A	8:30-9:20	MTuW	SL 1215	Marlow
Lab 001	8:30-10:20	Th	SL 1215	
Lect B	10:30-11:20	MTuW	SL 1215	Marlow
Lab 002	10:30-12:20	Th	SL 1215	
Lect C	1:30-2:20	MTuW	SL 1215	Clements
Lab 003	12:30-2:20	Th	SL 1215	
Lect Lab E004	6:00-8:20	Tu Th	SL 1215	Collier

### 110b-4 The Earth and Its Environment ..... 110a

Lect A	9:30-10:20	MTuW	SL 1215	Yarbrough
Lab 001	8:30-10:20	F	SL 1215	
Lect B	11:30-12:20	MTuW	SL 1215	Gore
Lab 002	10:30-12:20	F	SL 1215	
Lect C	12:30-1:20	MTuW	PB 1410	Yarbrough
Lab 003	12:30-2:20	F	SL 1215	
Lab 004	2:30-4:20	Th	SL 1215	
Lect Lab E005	6:30-8:20	M W	SL 1215	Gore
★Lect D	8:30-9:20	MTuW	ANA 110	Baker
★Lab 201	8:30-10:20	Th	ANA 110	
★Lect E	8:30-9:20	MTuW	ESL 105	Gore
★Lab 401	8:30-10:20	Th	397-001	

### 201a-4 Man's Biological Inheritance ..... 101 or 110

Lect A	11:30-12:20	M W F	SL 1105	Ratzlaff
Lab 001	8:30-10:20	Th	SL 2211	
Lab 002	10:30-12:20	Th	SL 2211	
Lab 003	12:30-2:20	Th	SL 2211	
Lab 004	2:30-4:20	Th	SL 2211	
Lab 005	8:30-10:20	F	SL 2211	
Lab 006	12:30-2:20	F	SL 2211	
Lab 007	2:30-4:20	F	SL 2211	
Lab 008	8:30-10:20	W	SL 3218	
Lab 009	12:30-2:20	W	SL 3218	
Lab 010	2:30-4:20	W	SL 3218	
Lab 011	8:30-10:20	Tu	SL 3218	
Lab 012	8:30-10:20	Th	SL 3218	

### 201b-4 Man's Biological Inheritance ..... 201a

Lect A	10:30-11:20	M W F	PB 0312	Thomerson
Lect B	10:30-11:20	M W F	PB 1410	

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			

**201b-4 Man's Biological Inheritance ..... 201a**

Lect C	10:30-11:20	M W F	PB 0314	
Lect D	11:30-12:20	M W F	PB 0312	
Lect EE	6:00-7:40	Tu	PB 0312	
	6:30-7:20	Th	PB 0312	
Lab 001	8:30-10:20	M	SL 2211	
Lab 002	11:30-1:20	M	SL 2211	
Lab 003	1:30-3:20	M	SL 2211	
Lab 004	3:30-5:20	M	SL 2211	
Lab 005	8:30-10:20	Tu	SL 2211	
Lab 006	10:30-12:20	Tu	SL 2211	
Lab 007	12:30-2:20	Tu	SL 2211	
Lab 008	2:30-4:20	Tu	SL 2211	
Lab 009	8:30-10:20	W	SL 2211	
Lab 010	11:30-1:20	W	SL 2211	
Lab E011	8:00-9:40	Tu	SL 2211	
Lab E012	7:30-9:20	Th	SL 2211	
Lab E013	6:30-8:20	W	SL 2211	
Lab 014	1:30-3:20	W	SL 2211	

**310-3 Human Anatomy and Physiology (See Biol 310) ..... 201b**

001	10:30-11:20	M W F	SL 1105	R. Parker
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**312-3 Conservation of Natural Resources ..... 201b**

001	8:30-9:20	M W F	PB 0306	Kircher
002	1:30-2:20	M W F	PB 0306	Collier
E003	8:30-9:45	M W	PB 0306	Clements
004	2:30-3:20	MTuW	PB 1412	Bridwell

**330-3 Weather ..... 201b**

001	11:30-12:20	MTuWTh	PB 0306	Guffy
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**331-3 Climate ..... 201b**

001	9:30-10:20	M WThF	PB 0306	Kazeck
002	12:30-1:20	M WThF	PB 0306	Bridwell
003	2:30-3:20	MTuWTh	PB 0306	Marlow
E004	6:30-8:20	Tu Th	PB 0306	Bridwell

**356-3 Astronomy ..... 101a**

001	2:30-3:20	M W F	PB 2306	Rockman
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**361-3 Physics of Music and Acoustics ..... 201b**

001	10:30-11:20	M W F	SL 0226	Shaw
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**363a-3 Philosophy of Science ..... Jr. standing**

001	9:30-10:20	Tu ThF	PB 1412	Helfrich
E002	11:30-12:20	Tu ThF	SL 2224	Helfrich
		ThF	PB 2403	

**363b-3 Philosophy of Science ..... Jr. standing**

001	9:30-10:20	Tu ThF	PB 0411	Livergood
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**MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)****101b-4 Survey of Western Tradition ..... 201b**

001	9:30-10:20	MTuWTh	PB 0314	Branz
002	11:30-12:20	Tu Th	PB 0312	Astour
	11:30-12:20	W F	PB 1307	
003	1:30-2:20	MTuWTh	PB 1306	Kimball

**101c-4 Survey of Western Tradition ..... 201b**

001	8:30-9:20	TuWThF	LB 0044	Steckling
002	10:30-11:20	MTuWTh	PB 1402	Kimball
003	12:30-1:20	TuWThF	PB 1402	Haas
004	2:30-3:20	MTuWTh	PB 1306	Ancheta
★201	9:30-10:20	MTuW F	SCI 200	Wurtz
★E202	8:30-10:20	M W	SCI 200	Wurtz
★401	9:30-10:20	MTuW F	ESL 130	Martin
E402	6:30-8:20	Tu Th	ESL 115	Martin

**103a-4 Sociology-Economics ..... 201b**

001	8:30-9:20	TuWThF	PB 1402	Rudwick
002	12:30-1:20	MTuWTh	LB 0044	Grubb
003	3:30-4:20	TuWThF	PB 1402	Grubb
E004	5:30-7:20	Tu Th	PB 1402	Teer
201	9:30-10:20	MTuWTh	ANA 108	O. Collins
401	9:30-10:20	MTuWTh	ESL 105	Teer

**103b-4 Sociology-Economics ..... 201b**

Lect A	12:30-1:20	MTu Th	SL 1105	Cohen
001	12:30-1:20	W	PB 3305	
002	12:30-1:20	W	PB 2412	
003	12:30-1:20	W	PB 2410	
004	12:30-1:20	W	PB 2306	
E005	6:30-8:20	M W	PB 2405	
★201	9:30-10:20	MTuW F	ANA 104	Price



Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
★401	9:30–10:20	MTuW F	ESL 115	Mulholland
★E402	8:30–10:20	Tu Th	ESL 115	
201a-4	The Individual and His Cultural Environment			
001	11:30–12:20	TuWThF	PB 1402	Hayes
002	3:30–4:20	MTuWTh	LB 0044	Voget
003	9:30–10:20	MTu ThF	PB 2410	Schusky
201	9:30–10:20	MTuWTh	SCI 201	J. Collins
E401	6:30–8:20	Tu Th	ESL 130	Hayes
201c-4	The Individual and His Cultural Environment			
001	10:30–12:20	Tu Th	SL 1105	McCall
002	1:30–3:20	M W	PB 0312	Starr
003	8:30–10:20	Tu Th	PB 0312	Dougherty
401	2:30–4:20	Tu Th	ESL 115	Southwood
203a-4	American Politics in the World Environment			
001	9:30–10:20	MTuWTh	PB 1410	Feeney
002	10:30–11:20	MTuWTh	PB 1414	Dawson
003	11:30–12:20	MTuWTh	PB 1410	Maier
004	12:30–1:20	MTuWTh	PB 0312	Dawson
005	1:30–2:20	MTuWTh	PB 1410	Stahnke
203b-4	American Politics in the World Environment			
001	8:30–9:20	MTuW F	PB 1410	Koepke
002	10:30–11:20	MTuW F	PB 0306	Koepke
003	1:30–2:20	MTuW F	PB 1412	Kircher
E004	6:30–8:20	M W	PB 0306	Kircher
300a-3	History of the United States			
001	8:30–9:20	TuW F	PB 1306	McCurry
002	2:30–3:20	MTu Th	PB 1414	Pearson
E003	6:30–7:45	Tu Th	PB 1306	Pearson
300b-3	History of the United States			
001	9:30–10:20	M W F	PB 1306	
002	10:30–11:20	M WTh	PB 1306	Rosenthal
003	12:30–1:20	M WTh	PB 0314	Branz
E004	8:30–9:45	M W	PB 1306	Weiss
300c-3	History of the United States			
001	11:30–12:20	M WTh	PB 1306	Weiss
002	1:30–2:20	M WTh	PB 1414	Rosenthal
311-3	Economic Development of the United States			
E001	8:30–9:50	M W	PB 0314	Hashimi
312-3	Comparative Economic Systems			
E001	6:30–7:50	M W	PB 1414	Price
318a-3	State and Local Government and Politics			
E001	4:30–7:20	M	PB 0307	McHargue
331-3	The American Educational Systems			
001	10:30–11:45	M W	PB 0411	
002	1:30–2:45	Tu Th	PB 0410	
003	1:30–2:45	Tu Th	PB 0412	
004	10:30–11:45	Tu F	PB 0411	
E005	5:30–8:20	W	PB 0408	
E401	5:30–8:20	M	ESL 103	
341-3	Marriage			
001	10:30–11:20	MTuW	PB 2306	Taylor
351b-3	Geographic and Cultural Background of Developing Africa			
001	2:30–4:20	M W	PB 2304	Schusky
354-3	Industrial Economic Geography			
001	11:30–12:20	M W F	PB 1412	Lossau
359a-3	Society and State: Social and Political Theories			
001	1:30–2:45	Tu Th	PB 0406	Remmling

### MAN'S INSIGHTS AND APPRECIATIONS (GSC)

151-3	Introduction to Poetry			GSD 101a,b
001	9:30–10:20	MTu Th	PB 3422	
002	10:30–11:20	MTu Th	PB 2415	
003	11:30–12:20	MTu Th	PB 3422	
004	12:30–1:20	MTu Th	PB 3422	
005	1:30–2:20	MTu Th	PB 3422	
006	2:30–3:20	MTu Th	LB 0042	
E201	6:30–7:45	Tu Th	SCI 103	
E401	6:30–7:45	M W	ESL 105	
155-5	Introduction to Art			
001	10:30–11:20	MTuWThF	LB 0044	Milovich
002	2:30–3:20	MTuWThF	LB 0044	Smith
★E201	6:00–8:20	M W	ANA 108	Epton
156-5	Introduction to Music History Literature			
001	9:30–10:20	MTuWThF	PB 1402	

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
<b>156-5 Introduction to Music History Literature</b>					
★201	10:30-11:20	MTuWThF	SCI 102		
★E401	6:00-8:20	Tu Th	ESL 212		
<b>157-5 The Dramatic Media: Theater, Cinema, and Television</b>					
001	9:30-10:20	MTuWThF	LB 0044	Kluth	
★401	10:30-11:20	MTuWThF	ESL 115	Birdman	
<b>158-5 The Fine Arts</b>					
001	1:30-2:20	MTuWThF	LB 0044	Richardson	
<b>252-4 Logic</b>					<b>Soph. standing</b>
001	8:30-9:20	MTu ThF	PB 1414	Livergood	
002	9:30-10:20	MTu ThF	PB 1414	Barker	
003	12:30-1:20	MTu ThF	PB 2306	Barker	
004	12:30-1:20	MTu ThF	PB 2412	Livergood	
005	3:30-4:20	MTu ThF	PB 0312	Glossop	
E201	6:30-8:20	Tu Th	SCI 102		
<b>253-4 Literary Masterpieces of Antiquity</b>					<b>151, GSD 101a,b</b>
001	8:30-9:20	MTu ThF	PB 0307		
002	10:30-11:20	MTu ThF	PB 3305		
003	11:30-12:20	MTu ThF	PB 1414		
004	12:30-1:20	MTu ThF	PB 0411		
005	1:30-2:20	MTu ThF	PB 2410		
006	2:30-3:20	MTu ThF	PB 2410		
<b>254-4 Philosophical Masterpieces</b>					<b>Soph. standing</b>
001	8:30-9:20	MTu ThF	PB 0408	Helfrich	
002	9:30-10:20	MTu ThF	PB 1307		
003	10:30-11:20	MTu ThF	LB 0042	Murdoch	
004	11:30-12:20	MTu ThF	LB 0042	F. Marti	
005	12:30-1:20	MTu ThF	PB 1307	Morgan	
006	1:30-2:20	MTu ThF	LB 0042	Morgan	
007	1:30-2:20	M F	PB 0307		
	1:30-2:20	Tu	PB 1414		
	1:30-2:20	Th	PB 3404		
E401	6:30-8:20	Tu Th	ESL 105		
<b>335-3 Studies in Short Fiction</b>					
001	1:30-2:45	Tu Th	PB 2306	Going	
002	3:30-4:45	M Th	PB 0309	Brown	
E003	6:30-7:45	Tu Th	SL 1105	Steinman	
<b>337-3 The English Language Heritage</b>					
001	1:30-2:20	M	PB 0408	Wood	
	1:30-2:20	Tu Th	PB 0306		
<b>339-3 Classical Mythology and Its Influence</b>					
001	11:30-12:20	MTu Th	PB 3305	Drake	
<b>354a-3 History of the Theater</b>					
001	10:30-11:20	M W F	PB 3315	Vilhauer	
<b>354b-3 History of the Theater</b>					
001	9:30-10:20	M W F	PB 3315	Archer	
<b>360a-3 Arts and Ideals in Famous Cities</b>					<b>Jr. standing</b>
001	10:30-11:20	Tu ThF	PB 0410	F. Marti	
<b>363a-3 Philosophy of Science</b>					<b>Jr. standing</b>
001	9:30-10:20	Tu ThF	PB 1412	Helfrich	
002	11:30-12:20	Tu ThF	SL 2224	Helfrich	
<b>370b-3 American Art</b>					
001	11:30-12:20	M W F	LB 0044	Hilberry	
<b>375a-3 Ethics</b>					<b>Jr. standing</b>
001	12:30-1:20	Tu ThF	PB 0309	Broyer	
002	1:30-2:20	Tu ThF	PB 0411	Broyer	
<b>375b-3 Ethics</b>					<b>Jr. standing</b>
001	2:30-3:20	Tu ThF	PB 3305	Seligman	
E002	6:30-7:45	Tu Th	PB 1410	Seligman	

## ORGANIZATION AND COMMUNICATION OF IDEAS (GSD)

<b>101a-3 English Composition</b>					
001	8:30-9:20	MTu ThF	PB 0314		
002	10:30-11:20	MTu ThF	PB 2410		
003	11:30-12:20	MTu ThF	PB 2410		
004	12:30-1:20	MTu ThF	PB 0412		
005	1:30-2:20	MTu ThF	PB 0304		
006	2:30-3:20	MTu ThF	PB 3316		
E201	6:30-8:20	M W	SCI 102		
E401	6:30-8:20	Tu Th	ESL 104		
<b>101b-3 English Composition</b>					<b>101a</b>
001	8:30-9:20	MTu ThF	PB 0406		
002	8:30-9:20	MTu ThF	PB 3316		
003	8:30-9:20	MTu ThF	PB 2414		
004	9:30-10:20	MTu ThF	PB 3316		

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
005	9:30–10:20	MTu ThF	PB 2414	
006	9:30–10:20	M	PB 0309	
	9:30–10:20	Tu ThF	PB 0406	
007	10:30–11:20	MTu ThF	PB 2414	
008	10:30–11:20	M F	CB 0194	
	10:30–11:20	Tu Th	PB 0312	
009	10:30–11:20	MTu ThF	PB 2413	
010	11:30–12:20	MTu ThF	PB 2413	
011	11:30–12:20	Tu ThF	PB 0410	
	11:30–12:20	M	PB 1402	
012	11:30–12:20	M F	PB 0413	
	11:30–12:20	Tu Th	PB 1412	
013	12:30–1:20	MTu ThF	PB 1306	
014	12:30–1:20	MTu ThF	PB 1414	
015	12:30–1:20	MTu ThF	PB 2414	
016	1:30–2:20	MTu F	PB 3404	
	1:30–2:20	Th	PB 1412	
017	1:30–2:20	M F	PB 2306	
	1:30–2:20	Tu Th	PB 0409	
018	1:30–2:20	MTu ThF	PB 1307	
019	2:30–3:20	MTu ThF	PB 3315	
020	2:30–3:20	MTu ThF	PB 3302	
021	3:30–4:20	MTu ThF	PB 0412	
022	3:30–4:20	MTu ThF	PB 1306	
023	8:30–9:20	MTu ThF	PB 0410	
024	12:30–1:20	MTu ThF	PB 0413	
025	11:30–12:20	M F	CB 0194	
		Tu Th	PB 0406	
026	1:30–2:20	MTu ThF	PB 2304	
027	2:30–3:20	M F	PB 3404	
		Tu Th	PB 0411	
028	3:30–4:20	MTu ThF	PB 3302	
★201	9:30–10:20	MTuW F	ANA 110	
★202	10:30–11:20	MTu ThF	ANA 110	
★203	11:30–12:20	MTu ThF	ANA 110	
★E204	6:30–8:20	M W	ANA 110	
★E205	6:30–8:20	Tu Th	ANA 110	
★E206	8:30–10:20	M W	ANA 110	
★E207	8:30–10:20	Tu Th	ANA 110	
401	9:30–10:20	MTu ThF	ESL 221	
★402	10:30–11:20	MTu ThF	ESL 221	
★403	11:30–12:20	MTu ThF	ESL 221	
★E404	6:30–8:20	M W	ESL 221	
★E405	6:30–8:20	Tu Th	ESL 221	
★E406	8:30–10:20	M W	ESL 221	
★E407	8:30–10:20	Tu Th	ESL 221	
103–3	Oral Communication of Ideas			
001	8:30–9:20	M W F	PB 2406	
002	8:30–9:20	M W F	PB 3409	
003	9:30–10:20	M W F	PB 2406	
004	9:30–10:20	M W F	PB 3404	
005	10:30–11:20	M W F	CB 0186	
006	10:30–11:20	M W F	PB 2406	
007	11:30–12:20	M W F	PB 2406	
008	11:30–12:20	M W F	PB 3409	
009	12:30–1:20	M W F	PB 2406	
010	12:30–1:20	M W F	PB 3409	
011	1:30–2:20	M W F	PB 2406	
012	1:30–2:20	M W F	PB 3409	
013	2:30–3:20	M W F	PB 2406	
014	2:30–3:20	M W F	PB 3409	
015	11:30–12:45	Tu Th	PB 2406	
016	11:30–12:45	Tu Th	PB 3409	
017	1:30–2:45	Tu Th	PB 2406	
018	1:30–2:45	Tu Th	PB 3409	
019	2:30–3:45	Tu Th	PB 2415	
201	9:30–10:20	M W F	ANA 111	
★202	10:30–11:20	M W F	ANA 111	
★203	11:30–12:20	M W F	ANA 111	
★E204	6:30–7:45	M W	ANA 111	
★401	11:30–12:20	M W F	ESL 104	
106–0	Intermediate Algebra			
001	12:30–1:20	M WThF	SL 0226	Stenzel
E201	6:30–8:20	M W	SCI 003	
112a–4	Introduction to Mathematics			
001	2:30–3:20	MTu ThF	SL 1210	Bennewitz
★E201	6:30–8:20	Tu Th	SCI 003	



## 18 GENERAL STUDIES AREA D (GSD)

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
<b>112b-5 Introduction to Mathematics</b>					
001		11:30-12:20	MTuWThF	SL 1225	Bennewitz
002		2:30-3:20	MTuWThF	SL 0226	Phillips
★201		11:30-12:20	MTuWThF	SCI 103	Phillips
E202		6:00-8:20	M W	SCI 002	
★401		11:30-12:20	MTuWThF	ESL 220	Powers
★E402		6:00-8:20	M W	ESL 220	Powers
<b>114a-5 College Algebra</b>					
001		10:30-11:20	MTuWThF	SL 2224	
002		12:30-1:20	MTuWThF	SL 1210	
003		2:30-3:20	MTuWThF	SL 1225	
★E401		6:00-8:20	M W	ESL 124a	
<b>114c-4 Trigonometry</b>					
001		8:30-9:20	MTu ThF	SL 1224	Clemans
002		9:30-10:20	MTu ThF	SL 1224	
003		10:30-11:20	MTu ThF	SL 1225	Verderber
004		12:30-1:20	MTu ThF	SL 1225	
005		1:30-2:20	M F	SL 2224	
		1:30-2:20	Tu Th	SL 1225	
★E201		6:30-8:20	Tu Th	SCI 002	
★202		11:30-12:20	MTu ThF	SCI 003	Gwillim
★401		11:30-12:20	MTu ThF	ESL 106	
<b>114d-4 Statistics</b>					
001		12:30-2:20	M W	PB 3412	
002		10:30-12:20	Tu Th	PB 3412	Godoy
E003		6:30-8:20	Tu Th	PB 3412	Gruen
004		11:30-12:20	MTu ThF	SL 3225	
005		2:30-3:20	MTu ThF	SL 2224	
★E202		6:30-8:20	Tu Th	ANA 101	Price
★401		11:30-12:20	MTuWTh	ESL 115	Mulholland
<b>123b-3 Elementary French</b>					
001		9:30-10:20	MTu Th	PB 0413	
002		1:30-2:20	MTu Th	PB 0413	
E201		6:30-7:45	Tu Th	ANA 100	
★E401		6:30-7:45	M W	ESL 222	
<b>126b-3 Elementary German</b>					
001		11:30-12:20	MTu Th	PB 3404	
002		12:30-1:20	MTu Th	PB 3404	
003		3:30-4:20	MTu Th	PB 0408	
★201		11:30-12:45	M W	SCI 200	
E401		6:30-7:45	Tu Th	ESL 222	
<b>140a-3 Elementary Spanish</b>					
001		2:30-3:20	MTu Th	PB 0413	
<b>140b-3 Elementary Spanish</b>					
001		10:30-11:20	MTu Th	PB 3404	
002		10:30-11:20	M	PB 0409	
			Tu Th	PB 2403	
003		3:30-4:20	MTu Th	PB 0413	
E201		6:30-7:45	M W	SCI 103	
★401		11:30-12:20	MTu Th	ESL 112	
<b>144b-3 Elementary Italian</b>					
★E201		6:30-7:45	Tu Th	SCI 201	

## HEALTH AND PHYSICAL DEVELOPMENT (GSE)

Students registering for classes marked "Arranged" will check with the HRPE office (PB 2219, extension 3252) to find where the class will meet.

102-1	Physical Fitness (Men)				
001	10:30-11:20	Tu	Th	PB 0304	Luedke
002	3:30-4:20	M	W	PB 0304	Moehn
003	11:30-12:20	Tu	Th	PB 0304	Luedke
401	1:30-2:20	Tu	Th	ESL 009	Brick
104c-1	Basketball (Men)				
201	9:30-10:20	M	W	Gym 102	Gallatin
401	2:30-3:20	Tu	Th	ESL 009	Brick
104n-1	Cross Country (Men)				
401	3:30-4:20	Tu	Th	ESL 009	Brick
112-1	Basic Body Movement (Women)				
201	9:30-10:20	M	W	Gym 102	Martin
114c-1	Basketball (Women)				
201	10:30-11:20	Tu	Th	Gym 102	Brick
115a-1	Restricted Physical Education				
001	11:30-12:20	Tu	Th	PB 0304	Martin
117a-1	Square Dance				
001	10:30-11:20	M	W	PB 0304	Martin

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
002	11:30–12:20	Tu Th	PB 0304	S. Carpenter
<b>117b-1 Folk Dance</b>				
001	11:30–12:20	M W	PB 0304	Martin
002	9:30–10:20	Tu Th	PB 0304	S. Carpenter
003	1:30–2:20	Tu Th	PB 0304	S. Carpenter
<b>117c-1 Social Dance</b>				
001	1:30–2:20	M W	PB 0304	Martin
002	2:30–3:20	M W	PB 0304	Martin
003	2:30–3:20	Tu Th	PB 0304	S. Carpenter
<b>117d-1 Beginning Contemporary Dance</b>				
001	9:30–10:20	Tu Th	PB 0304	Martin
<b>117e-1 Intermediate Contemporary Dance</b>				
001	9:30–10:20	Tu Th	PB 0304	Martin
<b>117f-1 Basic Rhythms</b>				
001	10:30–11:20	Tu Th	PB 0304	S. Carpenter
002	1:30–2:20	Tu Th	PB 0304	Martin
<b>118b-1 Badminton</b>				
201	8:30–9:20	Tu Th	Gym 102	Brick
<b>118d-1 Bowling</b>				
001	9:30–10:20	M W	UC 0017	Showers
002	10:30–11:20	M W	UC 0017	Showers
003	10:30–11:20	Tu Th	UC 0017	Gallatin
004	11:30–12:20	Tu Th	UC 0017	Gallatin
<b>118i-1 Volleyball</b>				
201	10:30–11:20	M W	GYM 102	Gallatin
<b>118m-1 Fencing</b>				
001	10:30–11:20	Tu Th	PB 0304	Martin
<b>118r-1 Stunts and Tumbling</b>				
201	1:30–2:20	Tu Th	Gym 102	Luedke
<b>118s-1 Gymnastics</b>				
201	2:30–3:20	Tu Th	Gym 102	Luedke
201	3:30–4:20	Tu Th	Gym 102	Luedke
<b>118z-1 Recreational Sports</b>				
001	1:30–2:20	M W	PB 0304	Lee
<b>201-3 Healthful Living</b>				
001	2:30–3:20	MTu Th	SL 1105	Lee
002	1:30–2:20	M W F	PB 1402	Klein
003	12:30–1:20	M W F	SL 3225	Luedke
201	11:30–12:20	M W F	ANA 101	Moehn
401	11:30–12:20	M W F	ESL 105	Brick

## ACCOUNTING (ACCT)

<b>230-4 Accounting Principles</b>				<b>Soph. standing</b>
001	8:30–10:20	Tu Th	PB 3303	Donnalley
002	10:30–12:20	M W	PB 3302	Donnalley
003	8:30–10:20	Tu Th	PB 3302	Mains
004	12:30–2:20	M W	PB 3303	Milles
E201	6:30–8:20	M W	ANA 100	Mains
E401	6:30–8:20	Tu Th	ESL 224	Dressel
<b>231-4 Financial Accounting Analysis</b>				<b>230</b>
001	12:30–2:20	M W	PB 3316	Bedel
E002	8:30–10:20	M W	PB 3316	Nourallah
E201	8:30–10:20	M W	ANA 100	Mains
E401	8:30–10:20	Tu Th	ESL 224	Dressel
<b>330-4 Managerial Cost and Budgeting</b>				<b>231</b>
E001	6:30–8:20	Tu Th	PB 3316	Donnalley
<b>331-4 Principles of Income Taxation</b>				<b>231</b>
E001	8:30–10:20	Tu Th	PB 3315	Milles
<b>341-4 Cost Accounting Principles</b>				<b>231</b>
E001	6:30–8:20	M W	PB 3313	Nourallah
<b>351a-4 Accounting Theory and Problems I</b>				<b>231</b>
E001	6:30–8:20	Tu Th	PB 3302	Milles
<b>351b-4 Accounting Theory and Problems II</b>				<b>351a</b>
001	10:30–12:20	Tu Th	PB 3313	Nissing
<b>442-4 Advanced Cost Accounting</b>				<b>341</b>
001	12:30–2:20	Tu Th	PB 3313	Nourallah
<b>453-4 Advanced Cost Accounting Problems</b>				<b>351b</b>
E001	6:30–8:20	M W	PB 3315	Nissing
<b>456-4 Auditing</b>				<b>351b, 442</b>
E001	8:30–10:20	M W	PB 3313	Nissing

## AEROSPACE STUDIES (AS)

<b>302-3 Growth and Development of Aerospace Power</b>				
001	9:30–10:20	M W F	PB 2413	Horvath
002	12:30–1:20	M W F	PB 2413	Hancock

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			

## ANTHROPOLOGY (ANTH)

408-4	History of Anthropological Thought			
001	11:30-12:20	MTuWTh	PB 0314	Voget
409-4	Anthropology and Modern Life			
001	1:30-3:20	M W	PB 2413	J. Collins

## APPLIED SCIENCE (APS)

101a-3	Graphics			101a
001	11:30-1:20	M W F	SL 1216	Bishop
001	8:30-10:20	M W F	SL 1216	Bishop
E002	6:30-9:20	Tu Th	SL 1216	
003	1:30-3:20	M W F	SL 1216	Bishop
524b-3	Linear and Non-Linear Programming			524a
E001	8:30-9:45	M W	CB 0186	Hughs
560b-4	Automatic Control Theory			560a
E001	6:30-8:20	M W	SL 1212	

## A R T (ART)

050-3	Avocational Painting			
E001	6:30-9:30	Tu Th	Wagner	
051-3	Avocational Ceramics			
E001	6:30-9:30	Tu Th	Wagner	Holden
100a-5	Basic Studio			
001	8:30-11:30	M W F	SL 0225	Epton
100b-5	Basic Studio			100a
001	8:30-11:30	M W F	SL 0222	Freund
002	1:30-4:30	M W F	SL 0222	Milovich
003	10:30-12:20	MTuWThF	Wagner	Cannon
E004	6:30-9:30	M W F	Wagner	Marcell
202b-5	Intermediate Studio			202a
001	8:30-10:20	M W F	SL 0210	Smith
	8:30-10:20	Tu Th	SL 0225	Huntley
002	10:30-12:20	M W F	SL 0210	Richardson & Huntley
		Tu Th	SL 0225	
225b-3	History of World Art			
001	12:30-1:45	Tu Th	SL 2224	Altwater
300a-4	Art Education			
001	9:30-11:20	M W F	SL 0209	Buddemeyer
E002	5:30-8:20	Tu Th	SL 0209	Buddemeyer
300b-4	Art Education			300a
001	2:30-4:20	M W F	SL 0209	Buddemeyer
305b-4	Advanced Ceramics			
001	8:30-10:20	MTuWTh	Wagner	Cannon
310b-4	Painting			310a
001	1:30-3:20	MTuWTh	SL 0218	Huntley
312b-4	Advertising and Graphic Design			312a
E001	6:30-10:00	Tu Th	SL 0225	Kemper
325a or b or c-4	Studio			202
001	Arranged			Buddemeyer
358b-4	Prints			358a
E001	6:30-10:00	M W	SL 0210	Richardson
393b-4	Sculpture			393a
001	10:30-12:20	MTuWTh	Wagner	Marcell
401-4	Research in Painting			310
001	Arranged		SL 0218	Freund
405-4	Studio in Sculpture			393
001	10:30-12:20	MTuWTh	Wagner	Marcell
408-4	Art Education for Elementary Teachers			
E001	6:30-9:20	M W	SL 0209	Altwater
410-4	Research in Prints			358
001	Arranged		SL 0210	Richardson
420-4	Research in Pottery			305
001	Arranged		Wagner	Cannon
501-4	Seminar in Painting			401
001	Arranged		SL 0218	Freund
502-4	Seminar in Sculpture			405
001	Arranged	MTuWTh	Wagner	Marcell
511-4	Seminar in Prints			410
001	Arranged	MTuWTh	SL 0210	Richardson
520-4	Seminar in Pottery			420
001	Arranged		Wagner	Cannon



Course No.—Hours	Descriptive Title	Edw.	Alton	E. St. Louis	Time	Days	Place	Instructor
566-4	Research in Art Education							
001	Arranged							Altwater
571-4	Readings in Art History							
001	Arranged							Hilberry

**BIOLOGY (BIOL)**

301b-4	Concepts at the Cellular Level						GSA 201b, Chem 111c	
Lect A	9:30-10:20	M	W	F		SL 3225		Levy
Lab 001	12:30-2:20		Tu			SL 3218		Levy
Lab 002	2:30-4:20		Tu			SL 3218		Levy
302b-5	Concepts at the Organism Level						GSA 201b	
Lect A	1:30-2:20	M	W	F		SL 3225		
Lab 001	12:30-2:20		Tu	Th		SL 3210		
Lab 002	2:30-4:20		Tu	Th		SL 3210		
303b-4	Concepts at the Population Level						GSA 201b	
001	2:30-3:20	MTuWTh				SL 3225		Broadbooks
310-2	Human Anatomy and Physiology Laboratory (Optional, to be taken with GSA 310 for 5 hrs. credit)							
Lab 001	8:30-10:20	M	W			SL 3210		R. Parker
Lab 002	11:30-1:20	M	W			SL 3210		R. Parker
Lab 003	1:30-3:20	M	W			SL 3210		R. Parker
Lab 004	3:30-5:20	M	W			SL 3210		R. Parker
390b-3	Undergraduate Biology Seminar						Jr. standing	
E001	4:30-5:20		W			SL 3225		
410-4	Advanced Genetics						303a or GSD 114d	
E001	6:30-7:20	M	W	F		SL 3225		Frost
	7:30-9:20		W			SL 3218		
415-4	Experimental Embryology						301c and Organic Chem. or con. regis.	
001	9:30-10:20		Tu	Th		SL 3225		N. Parker
	10:30-12:20		Tu	Th		SL 3218		
524-3	Biogeography						Cons. of instr.	
Lect E	6:30-7:45		Tu	Th		SL 3218		Kumler
547-3	Mineral Nutrition of Plants						Cons. of instr.	
Lect	10:30-11:20	M	W			SL 2231		Savostin
Lab 001	10:30-12:20			F		SL 3218		
590b-1	Graduate Biology Seminar						Cons. of instr.	
E001	4:30-5:20		W			SL 2231		

**BUSINESS ADMINISTRATION (BA)**

510-4	Managerial Accounting and Control						MBA student	
E001	6:30-8:20	M	W			PB 3302		Bedel
540-4	Managerial and Organization Behavior						MBA student	
E001	8:30-10:20	M	W			PM 3302		Jain

**BUSINESS COMMUNICATIONS (BC)**

390-4	Business Communications							
001	12:30-2:20	M	W			PB 3315		Cox
002	12:30-2:20		Tu	Th		PB 3302		Cox
E003	8:30-10:20		Tu	Th		PB 3313		Cox

**BUSINESS EDUCATION (BS ED)**

201b-3	Typewriting						201a	
001	10:30-12:20		Tu	Th		PB 3415		Hansel
201c-3	Typewriting						201b	
E001	8:30-10:20	M	W			PB 3415		Coffey
221a-4	Shorthand and Transcription							
E001	6:30-8:20		Tu	Th		PB 3415		Vaughn
221b-4	Shorthand and Transcription						221a	
001	8:30-10:20		Tu	Th		PB 3415		Maedke
304-3	Advanced Typewriting						201c	
001	10:30-12:20	M	W			PB 3415		Houser
324a-4	Advanced Shorthand and Transcription						221c	
E001	6:30-8:20	M	W			PB 3415		Coffey
324b-4	Advanced Shorthand and Transcription						324a	
001	8:30-10:20	M	W			PB 3415		Palmer
341-4	Office Machines							
001	10:30-12:20	M	W			PB 3412		Patsloff
404-3	Teaching Shorthand and Transcription						324a	
E001	5:30-8:10	M				PB 0309		Palmer
405-4	Teaching General Business Subjects							
001	10:30-12:20		Tu	Th		PB 0413		Maedke

## 22 BUSINESS EDUCATION (BS ED)

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
414b-3	Organization and Administration of Cooperative Vocational Business Education Program				
E001		5:30-8:10	M	PB 0413	McElroy
426-4	Office Management				
001		12:30-2:20	M W	PB 3415	Houser
427-4	Records Administration				
E001		8:30-10:20	Tu Th	PB 3415	Maedke
502-4	Research in Business Education				
E001		6:30-8:20	Tu Th	PB 0408	Patsloff

## CHEMISTRY (CHEM)

111a-5	Chemical Principles and Inorganic Chemistry				H.S. algebra
Lect EA		5:30-7:20	Tu Th	SCI 200	Parrill
Lab E201		7:30-10:20	Tu	SCI 205	
E202		7:30-10:20	Th	SCI 205	
111b-5	Chemical Principles and Inorganic Chemistry				111a
Lect A		8:30-9:20	M W F	SL 1105	Hufker
Lab 001		8:30-9:20	Tu	SL 2224	
		8:30-11:20	Th	SL 1209	
002		8:30-9:20	Th	SL 2224	
		8:30-11:20	Tu	SL 1209	
003		12:30-1:20	M	SL 2224	
		12:30-3:20	W	SL 1209	
004		12:30-1:20	W	SL 2224	
		12:30-3:20	M	SL 1209	
005		9:30-10:20	M	SL 2224	
		9:30-12:20	W	SL 2215	
006		11:30-12:20	M	SL 2224	
		11:30-2:20	F	SL 2215	
111c-5	Chemical Principles and Inorganic Chemistry				111b
Lect A		8:30-9:20	M W F	SL 2224	Bain
Lab 001		12:30-3:20	M W	SL 2215	
002		12:30-3:20	Tu Th	SL 2215	
003		8:30-11:20	Tu Th	SL 2215	
240-4	Organic Chemistry				110
Lect A		3:30-4:20	M W F	SCI 200	Bardolph
Lab 201		12:30-3:20	W	SCI 206	
305a-5	Organic Chemistry Preprofessional				111c
Lect A		8:30-9:20	M W F	SL 3225	Probst
Lab 001		8:30-11:20	Tu Th	SL 2216	
002		2:30-5:20	Tu Th	SL 2216	
336-4	Analytical Chemistry				235
Lect A		12:30-1:20	Tu Th	SL 1224	Firsching
Lab 001		1:30-4:20	Tu Th	SL 2217	
341b-5	Organic Chemistry				341a
Lect A		9:30-10:20	M W F	PB 2306	Bardolph
Lab 001		11:30-2:20	M W	SL 2216	
002		11:30-2:20	Tu Th	SL 2216	
375-1	Chemistry Seminar				Sr. standing
E001		4:30-5:20	M W	SL 2224	
411-4	Intermediate Inorganic Chemistry				460 or 461b
E001		7:00-8:50	M W	SL 2224	Bain
451b-4	Biochemistry				451a
Lect EA		5:30-6:45	Tu Th	SL 2224	Jason
E001		7:30-9:50	Tu	SL 2216	
461b-4	Physical Chemistry				461a
Lect EA		5:30-6:45	M W	SL 2224	Shiflett
Lab E001		7:00-9:50	M	SL 2217	
002		1:30-4:20	W	SL 2217	
562-3	Atomic and Molecular Structure				561
E001		7:00-8:15	Tu Th	SL 2224	White

## COMPARATIVE LITERATURE (CLT)

410b-4	Comparative Literary Genres (Drama)				
001	Arranged				Guenther

## COUNSELOR EDUCATION (CED)

305-4	Educational Psychology				Cons. of ed. div. advsr.
001		1:30-3:20	M W	PB 0314	Ederle
002		8:30-10:20	W F	PB 0312	
003		8:30-10:20	M W	PB 1412	Burecky
E401		6:30-8:20	Tu Th	ESL 103	Southwood
420-4	Educational Statistics				305
E001		4:30-6:20	Tu Th	PB 0314	Starr

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
<b>422-4</b>	<b>Educational Measurements I</b>			<b>305</b>
001	1:30-3:20	Tu Th	PB 0314	Hansmeier
E002	5:30-8:20	Tu F*	PB 0307	Eckert
003	8:30-12:00	S	PB 0314	Peters
* 4 additional sessions arranged				
<b>501-1 to 4</b>	<b>Special Research Problems</b>			<b>Cons. of instr.</b>
001	Arranged			
<b>522-4</b>	<b>Educational Measurements II</b>			<b>420, 422</b>
E001	5:30-8:20	W	PB 0307	Loper
<b>525-4</b>	<b>School Behavior Problems and Their Prevention</b>			
E201	5:30-8:20	W	ANA 104	Meredith
<b>526-4</b>	<b>Techniques in Individual Guidance (Elementary School)</b>			<b>Cons. of instr.</b>
E001	5:30-8:20	M	PB 2406	Rochester
<b>537-4</b>	<b>Counseling Theory and Practice I</b>			
E001	5:30-8:20	Tu	PB 2406	Pancrazio
E002	5:30-8:20	M	PB 3409	Ederle
<b>538-4</b>	<b>Counseling Theory and Practice II</b>			<b>537</b>
E001	5:30-8:20	M	PB 2415	Soper
<b>541-4</b>	<b>Occupational Information and Guidance</b>			
E001	5:30-8:20	Tu	PB 0309	Van Horn
<b>542-4</b>	<b>Basic Principles of Guidance</b>			<b>305</b>
E001	5:30-8:20	Tu	PB 0406	Ederle
E002	5:30-8:20	Th	PB 0307	
<b>543-4</b>	<b>Guidance Through Groups</b>			<b>Cons. of instr.</b>
E001	5:30-8:20	Th	PB 2406	McBride
002	Arranged		LB 0034	Harmin
<b>545a-4</b>	<b>Seminar: Problems in Guidance (Philosophy)</b>			<b>Cons. of instr.</b>
E001	5:30-8:20	Th	PB 3409	Davis
<b>545j-4</b>	<b>Seminar in Guidance: Organization and Administration</b>			<b>537</b>
E001	5:30-8:20	Tu	PB 3409	Davis
<b>562a-4</b>	<b>Child Development in Education</b>			
001	9:00-11:50	S	PB 0307	Troyer
<b>575c-4</b>	<b>Practicum in Secondary Guidance</b>			<b>Cons. of instr.</b>
001	Arranged (Specialist students)			Soper
002	Arranged (Masters students)			Pancrazio

## ECONOMICS (ECON)

<b>200-4</b>	<b>Macroeconomics</b>			<b>Soph. standing</b>
001	8:30-10:20	Tu Th	PB 2405	Carbaugh
E002	8:30-10:20	M W	PB 3303	
E201	6:30-8:20	Tu Th	ANA 108	
<b>201-4</b>	<b>Microeconomics</b>			<b>Soph. standing</b>
001	12:30-2:20	M W	PB 2405	C. Drake
002	12:30-2:20	Tu Th	PB 3305	C. Drake
E003	8:30-10:20	Tu Th	PB 3305	L. Drake
<b>300-4</b>	<b>The Monetary System and Economic Policy</b>			<b>200</b>
001	12:30-2:20	Tu Th	PB 3303	
E002	8:30-10:20	Tu Th	PB 3316	Livingston
<b>330-4</b>	<b>Public Finance I</b>			<b>300</b>
001	10:30-12:20	Tu Th	PB 3302	Cohen
<b>429-4</b>	<b>International Economics</b>			<b>200, 201</b>
001	12:30-2:20	Tu Th	PB 3316	Glynn
<b>440-4</b>	<b>Intermediate Micro Theory</b>			<b>201</b>
E001	6:30-8:20	Tu Th	PB 3313	Hashimi
<b>441-4</b>	<b>Intermediate Macro Theory</b>			<b>200</b>
001	12:30-2:20	M W	PB 3302	Schwier

## EDUCATION ADMINISTRATION (ED AD)

<b>355-4</b>	<b>Philosophy of Education</b>			<b>C Ed 305</b>
001	1:30-3:20	M W	PB 3305	Hoffman
002	1:30-3:20	M W	PB 2412	Lee
E003	6:30-8:20	M W	PB 2306	
E004	6:30-8:20	M W	PB 2410	Hoffman
005	10:30-12:20	Tu Th	PB 0409	Lee
E401	5:30-7:20	Tu Th	ESL 124a	Lee
<b>420-4</b>	<b>Legal Basis of American Education</b>			
E001	5:30-8:20	Th	PB 0413	Ackerlund
<b>431-4</b>	<b>History of Education in the United States</b>			
E001	5:30-8:20	W	PB 0409	
<b>434-4</b>	<b>Administrators' Workshop</b>			
E001	5:30-8:20	W	PB 1402	Andree



Course No.—Hours		Descriptive Title	Time	Days	Place	Instructor
Edw.	Alton E. St. Louis					
456-4		School Supervision				
E001			5:30-8:20	Th	CB 0194	Boss
500-4		Research Methods				
E001			5:30-8:20	M	LB 0042	Jordan
E002			5:30-8:20	Tu	LB 0042	Hileman
E003			5:30-8:20	Th	LB 0042	
004			9:00-11:40	S	PB 3422	
E401			5:30-8:20	W	ESL 104	Swerdlin
501-4		Seminar in Educational Administration				Specialist only
E001			5:30-8:20	M	CB 0194	Ackerlund
503-4		Seminar in Philosophy of Education				
E001			5:30-8:20	M	SL 2231	Curry
524-4		School Administration				
E001			5:30-8:20	Tu	PB 0413	Wheat
533-4		School Buildings				
E001			5:30-8:20	M	PB 0410	Andree
534a-4		School Finance				
E001			5:30-8:20	Tu	PB 3404	Wilkins
554-4		Contrasting Philosophies of Education				
E001			5:30-8:20	M	LB 0044	Villemain
560-4		Curriculum				Cons. of instr. and fac. chmn.
E001			5:30-8:20	Th	SL 0226	Smyers
002		Arranged				Harmin
575a-4		Individual Research (Curriculum)				Cons. of instr. and fac. chmn.
001		Arranged				
575b-4		Individual Research (Supervision)				Cons. of instr. and fac. chmn.
001		Arranged				
575c-4		Individual Research (Buildings)				Cons. of instr. and fac. chmn.
001		Arranged				
575d-4		Individual Research (Finance)				Cons. of instr. and fac. chmn.
001		Arranged				
575e-4		Individual Research (School Law)				Cons. of instr. and fac. chmn.
001		Arranged				
575f-4		Individual Research (Comparative Education)				Cons. of instr. and fac. chmn.
001		Arranged				
575g-4		Individual Research (History of Education)				Cons. of instr. and fac. chmn.
001		Arranged				
575h-4		Individual Research (Philosophy of Education)				Cons. of instr. and fac. chmn.
001		Arranged				
575j-4		Individual Research (Administration)				Cons. of instr. and fac. chmn.
001		Arranged				
575k-4		Individual Research (Elementary Administration)				Cons. of instr. and fac. chmn.
001		Arranged				
596-5 to 9		Independent Investigation				Cons. of instr. and fac. chmn.
001		Arranged				
597-1 to 3		Thesis				Cons. of instr. and fac. chmn.
001		Arranged				
598-1 to 3		Thesis				Cons. of instr. and fac. chmn.
001		Arranged				
599-1 to 3		Thesis				Cons. of instr. and fac. chmn.
001		Arranged				

## EDUCATION ELEMENTARY (EDEL)

203-3		Understanding the Elementary School Child				
401			9:30-12:20	W	ESL 106	Kelly
314-4		Elementary School Methods				Ed Ad 355
E001			5:30-7:20	Tu Th	PB 3422	
002			2:30-4:20	M W	PB 0304	Carpenter
003			1:30-3:20	Tu F	PB 2412	Kelly
316-4		Kindergarten-Primary Methods and Curriculum				Ed Ad 355
E001			5:30-7:20	M W	PB 0304	Welch
337-4		Reading in Elementary School				314
001			1:30-3:20	Tu Th	PB 1402	Starr
002			5:30-7:20	M W	PB 0314	

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
350d-8 to 12	Kindergarten-Primary Student Teaching				
001	Arranged				
350e-4 to 8	Advanced Kindergarten-Primary Student Teaching				
001	Arranged				
351d-8 to 12	Elementary Student Teaching				
001	Arranged				
351e-4 to 8	Advanced Elementary Student Teaching				
001	Arranged				
413-4	Children's Literature				C Ed 305
E001	5:30-8:20	W		PB 2406	
415-4	Improvement of Instruction in Arithmetic in the Elementary School				314
001	1:30-4:20	M		PB 0410	Steinbrook
E002	5:30-8:20	W		PB 2414	
437-4	Problems in Reading				337
E001	5:30-8:20	Th		PB 3404	Richardson
442-4	Science for the Elementary Teacher				337
E001	5:30-8:20	Tu		PB 0411	Olive
505-4	Improvement of Reading Instruction				
E001	5:30-8:20	M		PB 3404	Richardson
507-4	Readings in Reading				Cons. of instr.
001	Arranged				
509-4	Practicum in Reading				Cons. of instr.
001	Arranged				
514-4	Organization and Administration of Reading Programs				
E001	5:30-8:20	Tu		PB 2414	Bear
515-4	Special Problems in the Teaching of Arithmetic in the Elementary School				
E001	5:30-8:20	Th		PB 2403	
518-4	Supervision of Student Teachers				
E001	5:30-8:20	Th		ESL 220	Wehling
521a-4	Diagnosis and Correction of Reading Disabilities				
Lect EA	5:30-7:20	Th		PB 0406	Bear
All students enroll for the lecture and for one clinic.					
Clinic 1	8:00-9:30		S	PB 0406	
Clinic 2	9:30-11:00		S	PB 0406	
Clinic 3	11:00-12:30		S	PB 0406	
521b-4	Diagnosis and Correction of Reading Disabilities				
Lect EA	5:30-7:20	W		PB 1306	Steinkellner
All students enroll for the lecture and for one clinic.					
Clinic 1	8:00-9:30		S	PB 0413	
Clinic 2	9:30-11:00		S	PB 0413	
Clinic 3	11:00-12:30		S	PB 0413	
541-4	Curriculum Problems in Elementary School Science				
E001	5:30-8:20	Th		PB 0309	Bliss
542-4	Language Arts in the Elementary School				
001	9:00-11:40		S	PB 0409	
543-4	Teaching the Social Studies in the Elementary School				
E001	5:30-8:20	Tu		PB 2413	Carpenter
561-4	Elementary School Curriculum				
E001	5:30-8:20	W		LB 0042	Zuckerman
575a-4	Individual Research (Curriculum)				Cons. of instr. and fac. chmn.
001	Arranged				
575b-4	Individual Research (Supervision)				Cons. of instr. and fac. chmn.
001	Arranged				
575c-4	Individual Research (Language Arts)				Cons. of instr. and fac. chmn.
001	Arranged				
575d-4	Individual Research (Science)				Cons. of instr. and fac. chmn.
001	Arranged				
575e-4	Individual Research (Reading)				Cons. of instr. and fac. chmn.
001	Arranged				
575f-4	Individual Research (Social Studies)				Cons. of instr. and fac. chmn.
001	Arranged				
575g-4	Individual Research (Elementary Education)				Cons. of instr. and fac. chmn.
001	Arranged				
575h-4	Individual Research (Arithmetic)				Cons. of instr. and fac. chmn.
001	Arranged				
575j-4	Individual Research (Problems in Kindergarten-Primary)				
001	Arranged				

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw.	Alton	E.	St. Louis		

575k-4	Individual Research (Elementary Administration)	Cons. of instr. and fac. chmn.
001	Arranged	
596-5 to 9	Independent Investigation	Cons. of instr. and fac. chmn.
001	Arranged	
597-1 to 3	Thesis	Cons. of instr. and fac. chmn.
001	Arranged	
598-1 to 3	Thesis	Cons. of instr. and fac. chmn.
001	Arranged	
599-1 to 3	Thesis	Cons. of instr. and fac. chmn.
001	Arranged	

## EDUCATION SECONDARY (EDS)

315-4	High School Methods	Ed Ad 355
001	10:30-12:20 M W	PB 0410 Kumler
002	2:30-4:20 Tu Th	PB 3313
E003	6:30-8:20 M W	PB 1402 Havens
		CB 0194
352d-8 to 12	Secondary Student Teaching	
001	through 026	Arranged
001	Agriculture	014 Home Economics
002	Art	015 Industrial Education
003	Biology	016 Journalism
004	Business	017 Mathematics
005	Chemistry	018 Music
006	Economics	019 Physical Education
007	English	020 Physics
008	Foreign Language	021 Sociology
009	General Science	022 Social Studies
010	Geography	023 Speech
011	Government	024 Library Service
012	Health Education	025 Psychology
013	History	026 School Nursing
352e-4 to 8	Secondary Student Teaching	
001	through 026	Arranged
	(See above listing under 352d.)	
407-4	The Junior High School	
E001	5:30-8:20 Th	PB 2413
487-4	Teaching the Natural Sciences in Secondary Schools	
E001	5:30-8:20 W	PB 1412 Bliss
505-4	Improvement of Reading Instruction	
E001	5:30-8:20 M	PB 0408 Richardson
507-2 to 4	Readings in Reading	Cons. of instr.
001	Arranged	
508-4	Seminar: Trends in Selected Areas in Secondary Schools	
E001	5:30-8:20 W	PB 2413 Madson
509-4	Practicum in Readings	Cons. of instr.
001	Arranged	
514-4	Organization and Administration of Reading Programs	
E001	5:30-8:20 Tu	PB 2414 Bear
518-4	Supervision of Student Teachers	
E401	5:30-8:20 Th	ESL 220 Wehling
521a-4	Diagnosis and Correction of Reading Disabilities	
Lect E	5:30-7:20 Th	PB 0406 Bear
	All students enroll for the lecture and for one clinic.	
	Clinic 1	8:00-9:30 S PB 0406
	Clinic 2	9:30-11:00 S PB 0406
	Clinic 3	11:00-12:30 S PB 0406
521b-4	Diagnosis and Correction of Reading Disabilities	
Lect E	5:30-7:30 W	PB 1306 Steinkellner
	All students enroll for the lecture and for one clinic.	
	Clinic 1	8:00-9:30 S PB 0413
	Clinic 2	9:30-11:00 S PB 0413
	Clinic 3	11:00-12:30 S PB 0413
550-4	Core Curriculum in Secondary Schools	
E001	5:30-8:20 M	PB 2413
564-4	The High School Principalship	
E001	5:30-8:20 W	PB 0413 Wheat
575a-4	Individual Research (Curriculum)	Cons. of instr. and fac. chmn.
001	Arranged	
575b-4	Individual Research (Supervision)	Cons. of instr. and fac. chmn.
001	Arranged	



Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
575c-4	Individual Research (Language Arts)			Cons. of instr. and fac. chmn.
001	Arranged			
575d-4	Individual Research (Science)			Cons. of instr. and fac. chmn.
001	Arranged			
575e-4	Individual Research (Reading)			Cons. of instr. and fac. chmn.
001	Arranged			
575f-4	Individual Research (Social Studies)			Cons. of instr. and fac. chmn.
001	Arranged			
575g-4	Individual Research (Secondary Education)			Cons. of instr. and fac. chmn.
001	Arranged			
575h-4	Individual Research (Higher Education)			Cons. of instr. and fac. chmn.
001	Arranged			
575j-4	Individual Research (Junior College)			Cons. of instr. and fac. chmn.
001	Arranged			
596-5 to 9	Independent Investigation			Cons. of instr. and fac. chmn.
001	Arranged			
597-1 to 3	Thesis			Cons. of instr. and fac. chmn.
001	Arranged			
598-1 to 3	Thesis			Cons. of instr. and fac. chmn.
001	Arranged			
599-1 to 3	Thesis			Cons. of instr. and fac. chmn.
001	Arranged			

## SPECIAL EDUCATION (SPE)

410b-4	Problems and Characteristics of the Mentally Retarded Child				
	C Ed 305 or Psyc 301 or 303				
E001	5:30-8:20		ThF*	PB 1307	Essmen
413b-4	Directed Observation of the Educable Mentally Handicapped				Cons. of instr.
001	Meets first week with 410b, then hours arranged				Johnson
414-4	The Exceptional Child				
E001	5:30-8:20	M	F*	PB 1306	Komm
481a-4	Seminar: The Emotionally Disturbed				
E001	5:30-8:20	W	F*	PB 3409	Sax
481b-4	Seminar: The Educable Mentally Handicapped				
E001	5:30-8:20		ThF*	PB 2414	Schwabe
481c-4	Seminar: The Gifted				
E001	5:30-8:20	Tu	F*	PB 2403	Shaffer
501-4	Special Research Problems				Cons. of fac. chmn.
001	Arranged				
513-4	Organization, Administration, and Supervision of Special Classes				Advanced standing
E001	5:30-8:20	W		PB 2415	
577-4 to 12	Practicum in Special Education				Cons. of fac. chmn.
001	Arranged				Tucker
580a-4	Seminar: Education of Exceptional Children				Cons. of instr.
E001	5:30-8:20	W		PB 3422	Tucker
590b-4	Seminar: Mental Retardation				Cons. of instr.
E001	5:30-8:20	M		PB 1304	Tucker

## ENGLISH (ENG)

300-4	Principles of English Grammar				
E001	4:30-6:20	M	W	PB 2304	Van Syoc
302a-4	Survey of English Literature (to 1550)				
001	8:30-9:30	MTu	ThF	PB 2403	Violette
302b-4	Survey of English Literature (1550-1750)				
001	12:30-1:20	MTu	ThF	PB 2304	Ziesler
002	9:30-10:30	MTu	ThF	PB 2412	Barker
E003	6:30-8:20	M	W	PB 2412	Stanley
302c-4	Survey of English Literature (after 1750)				
001	2:30-3:30	MTu	ThF	PB 2405	Thompson
309a-4	Survey of American Literature (to 1865)				
001	10:30-11:30	MTu	ThF	PB 2412	Austin

\* Meets first four Fridays.

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
309b-4	Survey of American Literature (after 1865)				
001		8:30-9:20	MTu ThF	PB 0412	Havens
E002		8:30-10:20	Tu Th	PB 0412	Stanley
365-4	Shakespeare				
001		12:30-1:20	MTu ThF	PB 0408	Murphy
390-3	Advanced Composition				
E001		6:30-7:45	Tu Th	PB 2412	Havens
391-3	Usage in Spoken and Written English				
001		11:30-12:20	MTu Th	PB 1307	Frogner
E002		8:30-10:20	Tu Th	PB 3404	Steinman
403-4	History of English Language				
001		2:30-3:20	MTu ThF	PB 1307	Van Syoc
404a-4	Middle English Literature				
E001		4:30-6:20	M W	PB 1414	Drake
412a-4	Sixteenth Century Nondramatic Literature				
001		10:30-11:20	MTu ThF	PB 1307	Taylor
420b-4	American Poetry: Modern				
001		1:30-2:20	M F	PB 2414	Havens
		1:30-2:20	Tu Th	PB 2415	
421b-4	English Poetry: Later Romantics				
E001		4:30-6:20	Tu Th	PB 1306	Bailey
431b-4	Major American Writers				
001		11:30-12:20	MTu ThF	PB 2412	Going
454b-4	English Fiction: Victorian Novel				
001		9:30-10:20	MTu ThF	PB 3409	Thompson
458a-4	American Fiction: American Novel				
001		11:30-12:20	MTu ThF	PB 2415	Austin
486-4	Workshop in High School English				
001		9:00-12:20		S PB 0309	Frogner & Steinman
488a-3	Methods of Teaching English as a Foreign Language				
E001		6:30-7:45	Tu Th	PB 0314	Van Syoc
500-2	Materials and Methods of Research in English				
E001		4:30-6:20	W	PB 3316	Stanley
502-4	Beowulf				
E001		6:30-8:20	M W	PB 1307	Wood
511-4	Studies in Renaissance				
E001		8:30-10:20	M W	PB 2415	Taylor
521-4	Studies in Victorian Poetry				
E001		6:30-8:20	Tu Th	SL 2227	Going
537-4	Studies in Twentieth Century American Writers				
E001		6:30-8:20	M W	PB 1410	Joost
538-4	Problems in American Literature				
001		9:00-12:20		S PB 1304	McDermott

## ENGINEERING (ENGR)

260b-3	Analytical Mechanics				
001		2:30-3:20	M W F	PB 3313	Brown
311b-3	Engineering Materials				
001		9:30-10:20	M W F	SL 2227	Jones
	Lab to be arranged				
420a-3	Transport Phenomena				
001		8:30-9:20	M W F	SL 2227	Jones

## FINANCE (FIN)

320-4	Corporation Finance				Acct 231, Econ 200
001		12:30-2:20	Tu Th	PB 2405	Meador
E002		8:30-10:20	Tu Th	PB 2405	Glynn
420-4	Problems in Corporation Finance				320
E001		6:30-8:20	Tu Th	PB 3315	Glynn
423-4	Commercial Banking Operations				320
001		12:30-2:20	Tu Th	PB 3315	Livingston
425-4	Investments				320
001		10:30-12:20	M W	PB 3313	Meador
430-4	Business Finance				MBA student
E001		6:30-8:20	M W	PB 3316	Meador

## FOREIGN LANGUAGES (FL)

## French (Fr)

123b-1	French Conversation				Con. enrol. in GSD 123b
001		9:30-10:20		F PB 0413	
002		1:30-2:20		F PB 0413	
E201		7:55-8:20	Tu Th	ANA 100	
★E401		7:55-8:20	M W	ESL 222	

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
201b-3	Intermediate French	201a or 3 years H.S. Fr. or equiv.			
001		11:30-12:20	M W F	PB 0412	
220-2	Intermediate French Conversation	Con. enrol. in 201 or cons. of instr.			
001		11:30-12:20	Tu Th	PB 0412	
338b-4	French Literature from the Middle Ages Through the 17th Century	201 and 1 qtr. 220 or cons. of instr.			
001		2:30-4:20	Tu Th	PB 2413	
351b-3	Advanced French Conversation and Composition	201 and 1 qtr. 220 or cons. of instr.			
001		2:30-3:45	M W	PB 2415	
501-4	Seminar on a Selected French Author (Flaubert)				
E001	Arranged				Marti

## German (Ger)

126b-1	German Conversation	Con. enrol. in GSD 126b			
001		11:30-12:20		F	PB 3404
002		12:30-1:20		F	PB 3404
003		3:30-4:20		F	PB 3404
★201		12:55-1:20	M W		SCI 200
E401		7:55-8:20	Tu Th		ESL 222
201b-3	Intermediate German	201a or 3 yrs. H.S. Ger or equiv.			
001		2:30-3:20	M W F		PB 3422
220-2	Intermediate German Conversation	Con. enrol. in 201 or cons. of instr.			
001		2:30-3:20	Tu Th		PB 3422
251-4	Scientific German	GSD 126-9 or 3 yrs. H.S. Ger or equiv.			
001	Arranged				Ryberg
313b-4	German Literature Before Romanticism	201 and 1 qtr. 220 or cons. of instr.			
001	Arranged				Spahn
351b-3	Advanced German Conversation and Composition	201 and 1 qtr. 220 or Cons. of instr.			
001		3:30-4:45	M W		PB 3422
512-3	Nineteenth Century German Novel				
E001	Arranged				Guenther

## Italian (Ital)

144b-1	Elementary Italian Conversation	Con. enrol. in GSD 144b			
★E201		7:55-8:20	Tu Th		SCI 201

## Spanish (Span)

140a-1	Spanish Conversation	Con. enrol. in GSD 140a			
001		2:30-3:20		F	PB 0413
140b-1	Spanish Conversation	Con. enrol. in GSD 140b			
001		10:30-11:20		F	PB 3404
002		10:30-11:20		F	PB 2403
003		3:30-4:20		F	PB 0413
E201		7:55-8:20	M W		SCI 103
★401		11:30-12:20		F	ESL 112
201b-3	Intermediate Spanish	201a or 3 yrs. H.S. Span or equiv.			
001		12:30-1:20	M W F		PB 2415
E002		6:30-7:45	Tu		PB 2415
			Th		PB 2304
220-2	Intermediate Spanish Conversation	Con. enrol. in 201 or cons. of instr.			
001		12:30-1:20	Tu Th		PB 2415
304b-4	Modern Spanish Literature	201 and 1 qtr. 220 or cons. of instr.			
001		2:30-4:20	M W		PB 2414
351b-3	Advanced Spanish Conversation and Composition	201 and 1 qtr. 220 or cons. of instr.			
001		12:30-1:45	Tu Th		PB 2413

GENERAL BUSINESS  
ADMINISTRATION (GBA)

140-4	Introduction to Business				
Lect A	9:30-10:20	MTu	Th	SL 1105	Myers
001	9:30-10:20		W	PB 3305	Myers
002	9:30-10:20		W	PB 2412	Scott
003	9:30-10:20		W	PB 2410	Ingwersen
004	9:30-10:20		W	PB 3316	Potter
E005	8:30-10:20	M	W	PB 2405	Blackledge
E201	6:30-8:20		Tu Th	ANA 104	Carr
E401	6:30-8:20	M	W	ESL 115	Statler



# 30 GENERAL BUSINESS ADMINISTRATION (GBA)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
340-4	Organization Behavior and Decision-Making	140, GSB 201a,c		
001	10:30-12:20	M W	PB 2405	Jain
E002	6:30-8:20	Tu Th	PB 2306	Potter
341-4	Organizational Problems	340		
001	8:30-10:20	M W	PB 2405	McKinney
E002	6:30-8:20	M W	PB 3303	McKinney
342-4	Contracts—Agency Law			
001	12:30-2:20	M W	PB 3313	Blackledge
440-4	The Legal Environment of Business	140		
001	10:30-12:20	Tu Th	PB 3315	Scott
441-4	Business Policy	341, 440		
001	10:30-12:20	Tu Th	PB 2405	Sokolik
E002	6:30-8:20	Tu Th	PB 3303	Scott

## G E O G R A P H Y (GEOG)

306-4	Introduction to Cultural Geography	6 hrs. geog.		
001	12:30-1:20	MTuW F	PB 1412	Baker
310b-3	Introduction to Cartographic Methods	6 hrs. geog.		
001	1:30-3:20	Tu Th	SL 1216	Guffy
402b-3	Advanced Physical Geography I (Landforms)	Geog 200 or 302		
001	10:30-11:20	M W F	SL 1216	Yarbrough
407b-3	Advanced Cultural Geography II (Historical Geography)			
E001	5:30-8:20	Th	PB 1412	Baker
426b-4	Photogrammetry	Math 114		
001	Arranged			Arnott
462a-4	Advanced Regional Geography: Europe	6 hrs. geog.		
001	10:30-11:20	MTuWTh	PB 1412	Clements
467b-3	Advanced Regional Geography: Latin America	6 hrs. geog.		
E001	5:30-8:20	M	PB 1412	Lossau
470b-4	Urban Planning	470a		
E001	*5:30-8:20	W	SL 1216	Johnsen
490b-2	Tutorial in Geography	6 hrs. geog., cons. of fac. chmn.		
001	Arranged			Kazeck
* Field trips required outside of class time.				
501-4	Geographic Techniques II (Research Writing)	511		
E001	5:30-8:20	Tu	PB 1412	Koepke
523-4	Seminar in Cartography	8 hrs. in Cartog.		
001	8:30-12:30	S	SL 1216	Guffy
530-4	Independent Studies in Geography	Cons. of fac. chmn.		
001	Arranged			Collier
599-4 to 8	Thesis			
001	Arranged			Kazeck

## G O V E R N M E N T (GOVT)

370-4	International Relations	200		
001	1:30-2:20	MTuWTh	PB 0309	Glaser
390a-4	Comparative European Government	200		
001	11:30-12:20	MTuWTh	PB 0307	Feeney
415b-3	Political Behavior	GSB 203a		
001	9:30-10:20	TuWTh	PB 0307	Ellsworth
440-4	Public Personnel Administration	360 or cons. of instr.		
001	2:30-3:20	MTuWTh	PB 0307	McHargue
450b-4	Latin American Governments	200, GSB 203a		
001	10:30-11:20	MTuWTh	PB 0307	Maier
458b-4	Government and Politics of Asia	200		
001	2:30-3:20	MTuWTh	PB 0309	Stahnke
484b-4	History of Political Theories	200		
001	10:30-11:20	MTuWTh	PB 0309	Mace
495b-4	American Constitutional Law	GSB 203a		
001	11:30-12:20	MTuWTh	PB 0309	Kerr
508-4	Seminar in International Relations			
001	Arranged			Glaser
513-4	Seminar in Constitutional Law			
001	Arranged			Kerr

## H E A L T H E D U C A T I O N (HED)

313s-4	Introduction to Safety Education			
E001	5:30-8:20	M	PB 2414	Klein

## H I G H E R E D U C A T I O N (HIED)

551-4	Curriculum Design and Policy			
E001	5:30-8:20	W	LB 0044	Boss

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			

## HISTORY (HIST)

332b-4	Medieval History			Soph. standing
001	11:30-12:20	TuWThF	PB 0408	Steckling
338a-3	History of Greece			Soph. standing
E001	8:30-9:45	Tu Th	PB 0307	Astour
352b-3	History of Latin America			
001	2:30-3:20	M WTh	PB 0408	Millett
367b-3	History of the Far East			
001	12:30-1:20	MTu Th	PB 0307	Ancheta
417d-4	Advanced English History			GSB 101b or cons.
E001	6:30-8:20	Tu Th	PB 1414	Haas
420-4	The French Revolution			GSB 101b or cons.
001	8:30-9:20	MTuWTh	PB 0309	Gallaher
425b-3	American Colonial History			GSB 300a
001	9:30-10:20	TuW F	PB 0309	McCurry
440b-3	History of American Diplomacy			GSB 300b,c
001	10:30-11:20	M WTh	PB 0408	Weiss
458a-4	History of Science			
001	1:30-2:20	TuWThF	PB 0408	Erickson
500-4	History Seminar			Grad. standing
E001	6:30-8:20	W	PB 1304	Millett
(additional hours to be arranged)				
553-3	New Viewpoints in American History			Grad. standing
E001	6:30-9:20	Th	PB 1304	Rosenthal

## HUMANITIES (HUM)

302-3	Humanities Honors			Cons. of instr.
001	Arranged			
	Topic: Cervantes' "Quixote" and the Art of the Baroque Mentality			
002	Arranged			Callanan
	Topic: To be determined			F. Marti

## INSTRUCTIONAL MATERIALS (IM)

308-4	School Library Technical Processes			
E001	5:30-8:20	W	PB 0410	
406-4	Library Materials for Adolescents			
E001	5:30-8:20	Th	PB 0411	Holzberlein
413-4	Cataloging of Non-Book Materials			308
E001	5:30-8:20	Tu	PB 0410	Holzberlein
417-4	Audio-Visual Methods in Education			
001	9:00-11:40	S	PB 0411	Gilligan
E002	5:30-8:20	W	PB 0411	Gilligan
003	1:30-3:20	M W	PB 0411	Thota
E004	5:30-8:20	M	PB 0411	Gilligan
445-4	Preparation of Teacher-Made Audio-Visual Materials			417 or cons.
E001	5:30-8:20	Tu	PB 0409	Madison
E002	5:30-8:20	Th	PB 0409	Madison
470-4	Programmed Instruction			
E001	5:30-8:20	Th	PB 0410	Wagner
514-4	Survey of Research and Development in Instructional Materials			417 or cons.
E001	5:30-8:20	Tu	PB 2304	Thota
546-4	Integration of Audio-Visual Materials in the Classroom			
001	9:00-11:40	S	PB 0410	Thota

## JOURNALISM (JRNL)

202-3	News Writing and Editing II			
001	Arranged			Hasse
345-3	History of Journalism			
001	Arranged			Hasse

## MANAGEMENT (MGT)

451-4	Methods of Quantitative Analysis			MBA student
E001	4:30-6:20	Tu Th	PB 3313	Rogier

MANAGEMENT OPERATING  
SYSTEMS (MOS)

280-4	Introduction to Data Processing			
E001	4:30-6:20	M W	PB 3303	Patsloff

## 32 MANAGEMENT OPERATING SYSTEMS (MOS)

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
281-4	Principles of Computer Programming				
E001		6:30-8:20	M W	CB 0186	Doetzel
380-4	Management Operating Systems I				Acct 231
E001		12:30-2:20	M W	CB 0186	Miller
E002		4:30-6:20	Tu Th	PB 3303	Krolak
381-4	Management Operating Systems II				380
E001		6:30-8:20	Tu Th	CB 0186	Rogier

## MARKETING (MKTG)

370-4	Consumer Behavior				Econ 201
001		8:30-10:20	M W	PB 3303	Eckles
E002		6:30-8:20	Tu Th	PB 3305	Eckles
371-4	Principles of Marketing Management				370
001		8:30-10:20	Tu Th	PB 3305	Gwin
E002		6:30-8:20	Tu Th	PB 2405	B. Meyers
450-4	Introduction to Managerial Marketing				MBA student
E001		8:30-10:20	M W	PB 3315	Vincent
452-4	Physical Distribution Management				470
001		10:30-12:20	Tu Th	PB 3303	DeBord
470-4	Marketing Research				371
001		8:30-10:20	Tu Th	PB 3315	DeBord
471-4	Advertising Policy and Management				470
E001		8:30-10:20	Tu Th	PB 3303	Eckles
473-4	Advanced Marketing Management				Sr. standing
001		10:30-12:20	M W	PB 2403	Vincent

## MATHEMATICS (MATH)

150a-4	Elementary Calculus and Analytic Geometry				
001		9:30-10:20	M WThF	SL 1225	
150b-4	Elementary Calculus and Analytic Geometry				
001		10:30-11:20	M WThF	SL 1224	Haimo
002		11:30-12:20	M WThF	SL 1224	Clemans
E003		6:30-8:20	M W	SL 1225	Lindstrum
225-4	Programming for Digital Computers				
E001		4:30-6:20	Tu Th	CB 0186	Goering
252a-4	Calculus and Analytical Geometry				
001		9:30-10:20	M WThF	SL 1210	Holden
002		1:30-2:20	M WThF	SL 1224	
252b-4	Calculus and Analytical Geometry				
001		9:30-10:20	M WThF	SL 0226	
300-4	The Real Number System				
001		2:30-3:20	MTuWTh	SL 1224	Clemans
305a-3	Applied Mathematics for the Physical Sciences				
001		11:30-12:20	M W F	SL 1210	
305b-3	Applied Mathematics for the Physical Sciences				
E001		6:30-7:45	Tu Th	SL 1210	Hattermer
310-4	The Teaching of Elementary Mathematics				
001		8:30-9:20	M WThF	SL 1210	Fanning
002		9:30-10:20	TuWThF	SL 2224	Fanning
311-4	The Teaching of Secondary Mathematics				
001		10:30-11:20	M WThF	SL 3225	Holden
320a-3	Fundamental Concepts of Algebra				
001		8:30-10:20	M W	SL 1225	
320b-3	Fundamental Concepts of Algebra				
001		12:30-1:20	M W F	SL 1224	Clemans
002		1:30-2:20	M W F	SL 1210	Oursler
410b-4	Statistical Analysis				
E001		4:30-6:20	Tu Th	SL 1224	Sturley
415-4	Non-Euclidean Geometry				
001		12:30-2:20	Tu Th	SL 3225	Phillips
421a-3	Linear Algebra				
E001		4:30-5:45	Tu Th	SL 1225	
446b-3	Structure of Mathematics				
E001		6:30-7:45	Tu Th	SL 2231	Holden
452b-3	Advanced Calculus				
001		1:30-2:20	M W F	SL 1225	Hattermer
E002		6:30-7:45	M W	SL 1210	Hughs
455b-3	Advanced Mathematics for the Physical Sciences				252b
E001		6:50-8:10	Tu Th	SL 3225	Garder
458b-3	Finite Mathematics				
E001		6:30-7:45	Tu Th	SL 1225	Phillips
475b-3	Numerical Analysis				
E001		8:30-9:45	Tu Th	SL 1224	Goering
480b-3	Probability				
E001		6:30-7:45	Tu Th	SL 1224	Rutledge



Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
483a-4	Introduction to Mathematical Statistics				
001		8:30-9:20	MTu ThF	SL 1225	Pendergrass
520b-3	Modern Algebra				
E001		8:30-9:45	M W	SL 1210	Lindstrum
550c-1 to 10	Seminar				
001		Arranged			
555b-3	Complex Variables				
E001		4:30-5:45	M W	SL 1224	Bennewitz
595-1 to 10	Special Project				
001		Arranged			
599-1 to 9	Thesis				
001		Arranged			

## MUSIC (MUS)

001a-1	Symphonic Band				
001		12:30-2:20	M W F	CB 1029	Fjerstad
(Students selected by audition enroll in section 001.)					
002		12:30-1:20	M W F	CB 0158	Mellott
001b-1	Stage Band				By audition
001		10:30-11:20	Tu Th	CB 1029	Mellott
002c-1	Male Chorus				
001		2:30-3:20	Tu Th	CB 1029	Van Camp
002d-1	Women's Glee Club				
001		1:30-2:20	Tu Th	CB 1029	Harbison
002e-1	Southern Illinois University Community Choral Society				
E001		7:30-9:30	Tu	PB 1402	Van Camp
002f-1	Madrigal Singers				By audition
001		11:30-12:20	Tu Th	CB 0158	Van Camp
002g-1	Concert Chorus				By audition
001		11:30-12:20	M W F	CB 1029	Van Camp
003-1	University Orchestra				By audition
E001		8:00-10:00	Tu	CB 1029	Kendall
010a-1	Class Strings				
001		10:30-11:20	Tu Th	CB 0194	Perry
		8:30-9:20	Th	CB 1029	
010c-1	Class Brass				
001		9:30-10:20	M W	CB 1029	Fjerstad
		8:30-9:20	Th	CB 1029	
010e-1	Class Piano				
001		12:30-1:20	M W F	PB 3406	Henderson
(For non-music majors)					
002		2:30-3:20	M W F	PB 3406	Henderson
(For music majors; first year in class piano)					
003		3:30-4:20	M W F	PB 3406	Henderson
(For music majors; second year in class piano)					
010f-1	Class Voice				
001		12:30-1:20	Tu Th	CB 0158	Joseph
105a-4	Theory of Music				
(Students must work in theory-laboratory a minimum of 1 hr. each Thursday.)					
001		8:30-9:20	MTuW F	PB 3404	Warren
105b-4	Theory of Music				
(Student must work in theory lab at least 1 hr. each Thursday.)					
001		8:30-9:20	MTuW F	PB 3406	Perry
002		8:30-9:20	MTuW F	CB 0194	Pival
140a through t 2 to 4	Private Applied Music				Majors only or cons. of instr.
001		Arranged			

- |                |                |
|----------------|----------------|
| a. Violin      | k. Piano *     |
| b. Viola       | l. French Horn |
| c. Cello       | m. Trumpet     |
| d. String Bass | n. Trombone    |
| e. Flute       | o. Tuba        |
| f. Oboe        | p. Baritone    |
| g. Clarinet    | q. Voice       |
| h. Bassoon     | r. Organ       |
| i. Saxophone   | s. Harpsichord |
| j. Percussion  | t. Harp        |

Each student enrolled in Private Applied Music for credit is required to attend Recital Class each quarter, unless excused by Applied teacher.

Recital Class: 9:30-10:20 Th Arranged Joseph

\* In addition to arranged lesson time:

- Selected piano students will be in accompanying Studio  
Studio: 3:30-4:20 Tu CB 0160
- Students of Miss Slenczynska will be in a Studio Lesson  
Studio Lesson: 8:30-9:20 Th CB 0160

Course No.—Hours	Descriptive Title	Edw.	Alton	E.	St. Louis	Time	Days	Place	Instructor
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**205b-3 Theory of Music**

(Student must work in Theory laboratory a minimum of 1 hr. each Thursday.)

001	9:30-10:20	M	W	F	PB 3406	Warren
002	9:30-10:20	M	W	F	CB 0194	Kresteff

**240a-t 2 or 4 Private Applied Music (See 140a)**

001 Arranged

See requirements stated in 140a

**301b-3 Music Education—Junior High**

001	2:30-3:20	Tu	Th		PB 3404	Joseph & Tarwater
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plus 1 hr. arranged

**318a-3 Conducting**

001	8:30-9:20	M	W	F	CB 0186	Joseph
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**340a-t 2 or 4 Private Applied Music (See 140a)**

001 Arranged

See requirements stated in 140a

**355a-1 Chamber Music Ensemble—Brass**

001	11:30-12:20	Tu	Th		CB 1029	Fjerstad
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**355b-1 Chamber Music Ensemble—Woodwinds**

By audition

001	11:30-12:20	Tu	Th		CB 0194	Mellott
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002	11:30-12:20	Tu	Th		CB 0186	Boitnott
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003	11:30-12:20	M	W		CB 0186	Boitnott
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**355c-1 Chamber Music Ensemble—Strings**

By audition

001	8:30-9:20	Tu	Th		CB 0186	Schieber
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**355d-1 Chamber Music Ensemble—Percussion**

By audition

001	Arranged				CB 0186	
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**357b-3 Music History and Literature**

001	3:30-4:20	M	WTh		PB 3404	Warren
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**411b-3 Choral Literature**

001	2:30-3:20	M	W	F	CB 0194	Van Camp
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**414-2 Collegium Musicum**

E001	4:30-5:20	Tu	Th		CB 0194	Joseph & Warren
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**420-1 Music Education Practicum**

E001	Arranged					Brauer
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**440a-t 2 or 4 Private Applied Music (See 140a)**

001 Arranged

See requirements stated in 140a. Recital Class requirement applies to Seniors only; not required of graduate students.

In addition to arranged lesson time, selected piano students will be in accompanying studio 3:30-4:20, Tuesday, CB 0160. Piano students of Miss Slenczynska must concurrently enroll (by audition) in 461a or b.

**442a-3 Contrapuntal Forms**

001	9:30-10:20	M	W	F	CB 0186	Mellott
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**461a-3 Teaching Techniques and Materials: Intermediate Level**

By audition

001	Arranged				CB 0160	Slenczynska
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**461b-3 Teaching Techniques and Materials: Advanced Level**

By audition

001	Arranged				CB 0160	Slenczynska
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**465-3 Development and Teaching of Strings**

E001	5:30-7:50	Tu			CB 1029	Kendall
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**481-2 to 6 Readings in Music Theory**

001 Arranged

**482-2 to 6 Readings in Music History and Literature**

001

**483-2 to 6 Readings in Music Education**

001 Arranged

**501-3 Introduction to Graduate Study in Music**

E001	5:30-8:20	Tu			CB 0194	Blakely
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**502a-3 Analysis of Musical Style**

E001	5:30-8:20	M			PB 3404	Kresteff
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**540a-t 2 or 4 Private Applied Music (See 140a)**

001 Arranged

Recital Class requirement shown in 140a required for full-time graduate students. Part-time graduate students are excused from this regulation.

In addition to arranged lesson time, selected piano students will be in accompanying studio 3:30-4:20, Tuesday, CB 0160. Piano students of Miss Slenczynska must concurrently enroll (by audition) in 461a or b.

**566-1 Instrumental Ensemble**

By audition

001 Arranged

**567-1 Vocal Ensemble**

By audition

001 Arranged

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			

599-2 to 6	Thesis			
001	Arranged			

## NURSING (NURS)

301-8	Nursing I				
001	8:00-11:50	TuWTh	Hospital		
	9:30-11:20	M F	PB 0304		Fjeld
325-8	Nursing IV				
001	8:00-11:50	MTu F	Hospital		Jenkins
	1:30-3:20	MTu	PB 1304		
355-3	Background and Trends in Nursing				
001	12:30-1:20	M	PB 3305		Reeves
	11:30-1:20	F	PB 3305		
363b-6	Nursing III				
001	8:00-12:20	WTh	Hospital		
	1:00-2:50	W	Hospital		
	1:00-1:50	Th	Hospital		
375-8	Nursing V				
001	8:30-12:30	MTu F	Agency		Burton
	1:00-4:30	MTu	Agency		
385-1 to 4	Independent Study				
001	Arranged				

## PERSONNEL AND INDUSTRIAL RELATIONS (PERS)

450-4	Personnel Administration			GBA 340
001	8:30-10:20	M W	PB 3313	Kori
451-4	Labor Relations Law and Collective Bargaining			GBA 340
001	8:30-10:20	Tu Th	PB 3313	Franke
452-4	Advanced Problems in Personnel Administration			GBA 450
001	10:30-12:20	Tu Th	PB 3316	Blackledge

## PHILOSOPHY (PHIL)

200-4	Types of Philosophy—An Introduction				
001	9:30-10:20	MTu ThF	PB 2415		Emblom
002	12:30-1:20	MTu ThF	PB 2410		Emblom
003	1:30-2:20	MTu ThF	CB 0194		Seligman
302-4	World Religions			Soph. standing	
001	12:30-1:20	MTu ThF	PB 0410		Murdoch
381b-4	History of Western Philosophy			Soph. standing	
001	9:30-10:20	MTu ThF	PB 2403		Corr
386-4	American Philosophy			Soph. standing	
001	10:30-11:20	M F	PB 0413		Broyer
	10:30-11:20	Tu Th	PB 2406		
443-4	Philosophy of History			Soph. standing	
001	2:30-3:20	M F	CB 0186		Emblom
		Tu Th	CB 0194		
484b-4	History of Western Political Theories (Same as Govt. 484b)				
001	10:30-11:20	MTuWTh	PB 0309		Mace
490-4	Special Problems (Tutorial)			Cons. of fac. chmn.	
001	Arranged				

## PHYSICAL EDUCATION (PE)

Students registering for classes marked "Arranged" will check with the HRPE office (PB 2219, extension 3252) to find where the class will meet.

303-5	Kinesiology			300
001	10:30-11:20	MTuWThF	PB 0406	Klein
305-3	Physical Education for the Atypical Student			303
001	12:30-1:20	M W F	PB 0406	Showers
348-3	Camp and Community Leadership			
001	1:30-2:20	M W F	PB 0406	Lee
		Tu Th	PB 0307	
349-2	Camping Education			
001	1:30-2:20	M W	PB 2415	Brick
350-4	Methods and Materials for Teaching Physical Education Activities in the Elementary School			
001	9:30-10:20	MTuW F	Arranged	Luedke
002	2:30-3:20	MTuW F	Arranged	Moehn
E003	5:30-8:20	Tu	Arranged	Moehn
354-3	Organization and Administration of Physical Education and Athletics			
001	2:30-3:20	M W F	PB 0406	Brick



# 36 PHYSICAL EDUCATION (PE)

Course No.	Hours	Descriptive Title	Edw.	Alton	E. St. Louis	Time	Days	Place	Instructor
365-2		Organization and Administration of Community Recreation							
001						9:30-10:20	M W	PB 0406	Lee
370-4		Tests and Measurements in Physical Education							
001						11:30-12:20	M W F	PB 3315	Showers
381-4		Theory of Coaching							
001						9:30-10:20	Tu ThF	PB 0410	Gallatin
402-4		Organization and Administration of Intramural and Extramural Sports							
001						6:30-9:20	Th	PB 2415	Showers
475-2		Individual Research							
001						Arranged			Herrold
503-4		Seminar in Physical Education							
e001						5:30-8:20	Tu	PB 1304	Herrold
525-1 to 4		Readings in Physical Education							
001						Arranged			Herrold

## PHYSICS (PHYS)

206b-5		College Physics							206a
Lect A						11:30-12:20	MTuW F	SL 0226	Boedeker
001						11:30-1:20	Th	SL 1217	
211b-4		University Physics							211a
Lect A						10:30-11:20	M W F	SL 1210	McAneny
001						10:30-12:20	Th	SL 1210	McAneny
002						10:30-11:20	Tu Th	SL 0226	Rockman
Lect eB						6:30-9:20	M	SL 1224	Slotboom
						6:30-8:20	F	SL 1224	
212b-1		University Physics Laboratory I							211a and con. enrol. in 211b
001						2:30-5:20	Tu	SL 1217	Slotboom
002						2:30-5:20	W	SL 1217	
003						8:30-11:20	Tu	SL 1217	
e004						6:30-9:20	W	SL 1217	
305b-4		Introduction to Electromagnetic Field Theory							305a
e001						8:30-10:20	M W	SL 3225	Sanders
310-4		Light							211b
001						1:30-2:20	MTuW F	SL 0226	Walford
311-1		Optics Laboratory							Con. enrol. in 310
001						2:30-5:20	Tu	SL 0212	Zurheide
415b-4		Modern Physics							415a
e001						6:30-8:20	M W	SL 0226	Boedeker
575-2		Graduate Seminar							Cons. of grad. advsr.
001						Arranged		SL 2227	Hakeem
590-1 to 9		Thesis							Cons. of grad. advsr.
001						Arranged			

## PRODUCTION (PROD)

460-4		Production Management							GBA 340
e001						6:30-8:20	M W	PB 2403	Ingwersen
461-4		Methods Design and Work Measurement							460
001						10:30-12:20	M W	PB 3316	Ingwersen

## PSYCHOLOGY (PSYC)

211a-4		Principles and Methods of Psychology							GSB 201c
		Student enrolls in one lecture and one lab.							
Lect A						9:30-10:20	Tu Th	PB 2306	McLaughlin
Lab 001						10:30-12:20	M	SL 2212	
Lab 002						10:30-12:20	Tu	SL 2212	
Lab 003						10:30-12:20	W	SL 2212	
211b-4		Principles and Methods of Psychology							211a
001						1:30-3:20	Tu Th	PB 0312	McCall
301-4		Child Psychology							GSB 201c
001						9:30-11:20	M W	PB 2304	Skinner
e002						6:30-8:20	M W	PB 0312	Kuenzli
303-4		Adolescent Psychology							GSB 201c
001						10:30-12:20	Tu Th	PB 0304	Kuenzli
305-4		Introduction to Personality Dynamics							GSB 201c
001						11:30-1:20	Tu Th	PB 2403	Skinner
e002						6:30-8:20	Tu Th	PB 0304	Kuenzli
307-4		Social Psychology							
001						1:30-3:20	M W	PB 0409	Engbretson
311-4		Experimental Psychology—Learning							211a,b
e001						7:30-9:20	Tu Th	SL 2212	Ferguson
312-4		Experimental Psychology: Perception							311
001						1:30-3:20	M W	SL 2212	McLaughlin

Course No.—Hours	Descriptive Title	Time	Days	Place	Instructor
Edw. Alton E. St. Louis					
407-4	Theories of Learning				311, 312
E001		6:30-8:20	M W	SL 2212	Ferguson
409-4	History and Systems			Signed cons. of Psyc. adviser	
001		12:30-2:20	M W	PB 2403	
421-4	Psychological Tests and Measurements				211b
001		11:30-1:20	M W	PB 0409	Taliana
432-4	Mental Hygiene			305 or cons. of instr.	
E001		5:30-8:20	ThF*	PB 2410	Harris
465-4	Group Dynamics and Individual Behavior				307 or cons. of instr.
001		2:30-4:20	Tu Th	PB 0409	McMahon
473-4	Personnel Psychology				320
E001		6:30-8:20	M W	PB 0406	Daugherty
490-1 to 4	Independent Projects			Cons. of fac. chmn.	
001		Arranged			
501b-4	Proseminar in General Psychology				501a
E001		5:30-7:20	Tu Th	SL 2212	
521-4	Research Design and Inference II				520
E001		7:30-9:20	Tu Th	PB 3422	Brinkmann
530-4	Personality Theory and Dynamics				440
E001		5:30-8:20	W	PB 0412	Skinner
541a-4	Psychodiagnostics I				211b, 421
E001		5:30-8:20	W	SL 2231	Harris
541b-4	Psychodiagnostics I				211b, 421
E001		5:30-8:20	W	SL 2227	Taliana
543a-4	Psychodiagnostics II			530, 541a, 541b, cons. of fac. chmn.	
E001		5:30-8:20	M	SL 2227	Taliana
564-4	Communication and Group Behavior				461, 465
E001		5:30-8:20	M	PB 3422	Engbretson
590-1 to 4	Readings in Psychology			Cons. of fac. chmn.	
001		Arranged			
591-1 to 4	Research in Psychology			Cons. of fac. chmn.	
001		Arranged			
593-1 to 4	Practicum in Psychology			Cons. of fac. chmn.	
001		Arranged			
599-1 to 4	Thesis			Cons. of fac. chmn.	
001		Arranged			

## QUANTITATIVE METHODS (QM)

210-4	Probability in Decision Making				GSD 114d
001		8:30-10:20	M W	PB 3412	
002		12:30-2:20	Tu Th	PB 3412	Luan
211-4	Statistical Analysis for Business Decisions				210
001		8:30-10:20	Tu Th	PB 3412	
002		10:30-12:20	M W	PB 3303	
003		6:30-8:20	M W	PB 3412	

## REHABILITATION (REHB)

519-2	Selection, Placement, and Follow-up				
001		3:30-5:20	Tu	PB 0307	Bernstein
531-2	Vocational Appraisal				
E001		5:30-8:20	W	PB 0309	Schumacher
580-2	Practicum in Rehabilitation Services				
		Arranged			Schumacher
585-4	Practicum in Rehabilitation Counseling				
		Arranged			Schumacher

## SOCIOLOGY (SOC)

302-4	Contemporary Social Problems			301 or GSB 103a or 201b	
001		11:30-12:20	MTuWTh	PB 2304	Irvine
	401	10:30-11:20	MTuWTh	ESL 105	Teer
306-4	Social Control			301 or GSB 103a or 201b	
001		9:30-10:20	MTuWTh	PB 0408	Rudwick
312-4	Sociological Research			308 or GSD 114d	
001		1:30-3:20	Tu Th	PB 2403	Altes
321-4	Socialization of the Individual			301 or GSB 103a or 201b	
001		11:30-12:20	MTuWTh	PB 2306	Campisi
335-4	Urban Sociology			301 or GSB 103a or 201b	
001		2:30-3:20	MTu ThF	PB 3303	Campbell
371-4	Population and Migration			301 or cons. of instr.	
001		3:30-4:20	MTuWTh	PB 3303	More
424-4	Collective Behavior			321, 322, or cons. of instr.	
001		10:30-11:20	MTuWTh	PB 0412	More

## 38 SOCIOLOGY (SOC)

Course No.—Hours	Descriptive Title	Days	Place	Instructor
Edw. Alton E. St. Louis	Time			
435-4	Social Stratification .....	301 or GSB 103a or 201b		
001	9:30-10:20 MTu ThF	PB 0412	Campbell	
438-4	Sociology of Occupations .....	301 or GSB 103a or 201b		
001	1:30-3:20 M W	PB 0412	O. Collins	
450-4	Social Thought I: Before 1800 .....	Cons. of instr.		
001	3:30-5:20 Tu Th	PB 2304	Remmling	
542-4	Seminar on the Family .....	Cons. of instr.		
E001	6:30-8:20 M W	PB 2304	Taylor	

## SOCIAL WELFARE (SOC W)

481-4	Processes in Social Work .....	375 or cons. of instr.		
001	10:30-11:20 MTuWTh	PB 3422	Irvine	

## SPEECH (SPCH)

202-3	Principles of Discussion .....			
001	1:30-2:20 Tu	PB 2414		
	1:30-3:20 Th	PB 2414		
406-4	Teaching Speech in Secondary School .....	16 hrs. Speech		
001	1:30-3:20 Tu Th	CB 0186	H. White	
408-4	Psychology of Speech .....	Sr. standing		
001	11:30-12:20 M WThF	PB 2414	St. Onge	

SPEECH PATHOLOGY AND  
AUDIOLOGY (SP & A)

203-4	Introduction to Speech Science .....			
001	9:30-10:20 M WThF	CB 2012	Carey	
319-4	Stuttering .....	212		
001	10:30-11:20 M WThF	CB 2012	O'Leary	
405a-4	Practicum in Speech and Hearing Therapy .....	Jr. standing		
001	8:30-9:20 W	CB 2012	Carey	
	(Additional meetings arranged)			
406-4	Techniques and Interpretation of Hearing Tests .....			
E001	5:30-8:20 Th	CB 2012	O'Leary	
	(Additional meetings arranged)			
415-4	Aphasia .....	412 or cons. of instr.		
E001	5:30-8:20 W	CB 2012	St. Onge	
	(Additional meetings arranged)			

## THEATER (THEA)

111a-3	Staging Techniques .....			
001	3:30-4:20 M W F	CB 2015	Vilhauer	
402a-4	Play Directing .....			
E001	5:30-8:20 Tu	CB 2015	Archer	
	(Additional meetings arranged)			

TECHNICAL AND ADULT  
EDUCATION (T & AE)

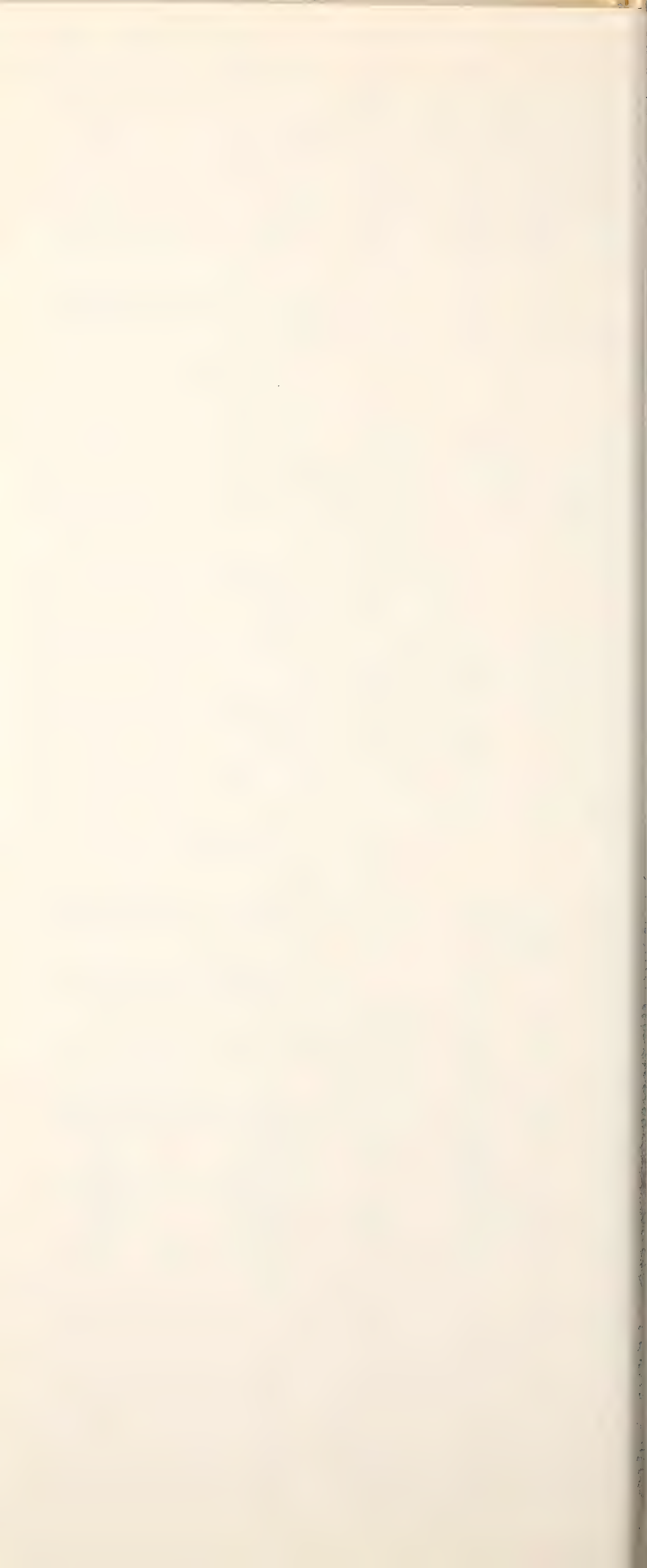
Non-credit courses.

Enrollment in these courses is arranged through the Enrollment Office.

English Review .....				
E001	8:30-10:20 W	SL 0226		
E002	8:30-10:20 M	SL 0226		
E003	8:30-10:20 F	SL 0226		
Reading Improvement .....				
E001	8:30-10:20 Th	SL 0226		
E002	4:30-6:20 Tu	SL 0226		
E003	6:30-8:20 F	SL 0226		











Edwardsville, Illinois 62025  
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University

*Bulletin*

*Teacher Education Programs  
Carbondale Campus*



## OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

### TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

### TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

### TO FORWARD IDEAS AND IDEALS

*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

### TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*



Southern Illinois  
University  
*Bulletin*

*Teacher Education Programs  
Carbondale Campus*



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## This Issue . . . . .

of the *Southern Illinois University Bulletin* covers in detail general and specific information on the academic preparation of teachers in elementary, secondary, and special education programs on the Carbondale Campus.

THE FOLLOWING issues of the *Southern Illinois University Bulletin* may be obtained free from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

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# Contents

Board of Trustees and Officers of Instruction . .	v
1 Teacher Education Programs . . . . .	1
Introduction . . . . .	1
General Information . . . . .	1
Standards for Admission . . . . .	3
Procedure for Admission . . . . .	6
Certification of Teachers . . . . .	7
2 Major Teaching Areas . . . . .	15
Agricultural Education . . . . .	15
Art . . . . .	15
Biological Sciences . . . . .	16
Botany . . . . .	16
Business Teacher Education . . . . .	16
Chemistry . . . . .	17
Economics . . . . .	17
English . . . . .	17
Foreign Languages . . . . .	18
Geography . . . . .	18
Government . . . . .	18
Health Education . . . . .	19
History . . . . .	19
Home Economics . . . . .	19
Journalism . . . . .	19
Language Arts and Social Studies . . . . .	20
Mathematics . . . . .	20
Music . . . . .	20
Physical Education—Men . . . . .	21
Physical Education—Women . . . . .	21
Physical Science . . . . .	21
Physics . . . . .	21
Social Studies . . . . .	22
Special Education . . . . .	22
Speech Pathology and Audiology . . . . .	23
Speech . . . . .	23
Technical and Industrial Education . . . . .	24
Zoology . . . . .	24
3 Minor Teaching Areas . . . . .	25
Biological Sciences . . . . .	25
Botany . . . . .	25
Chemistry . . . . .	25
Economics . . . . .	25
English . . . . .	26
Foreign Languages . . . . .	26
Geography . . . . .	26



Government .....	26
Health Education .....	27
History .....	27
Home Economics .....	27
Instructional Materials .....	27
Mathematics .....	27
Microbiology .....	27
Philosophy .....	28
Physical Education—Men .....	28
Physical Education—Women .....	28
Physics .....	29
Physiology .....	29
Speech .....	29
Technical and Industrial Education .....	29
Zoology .....	30

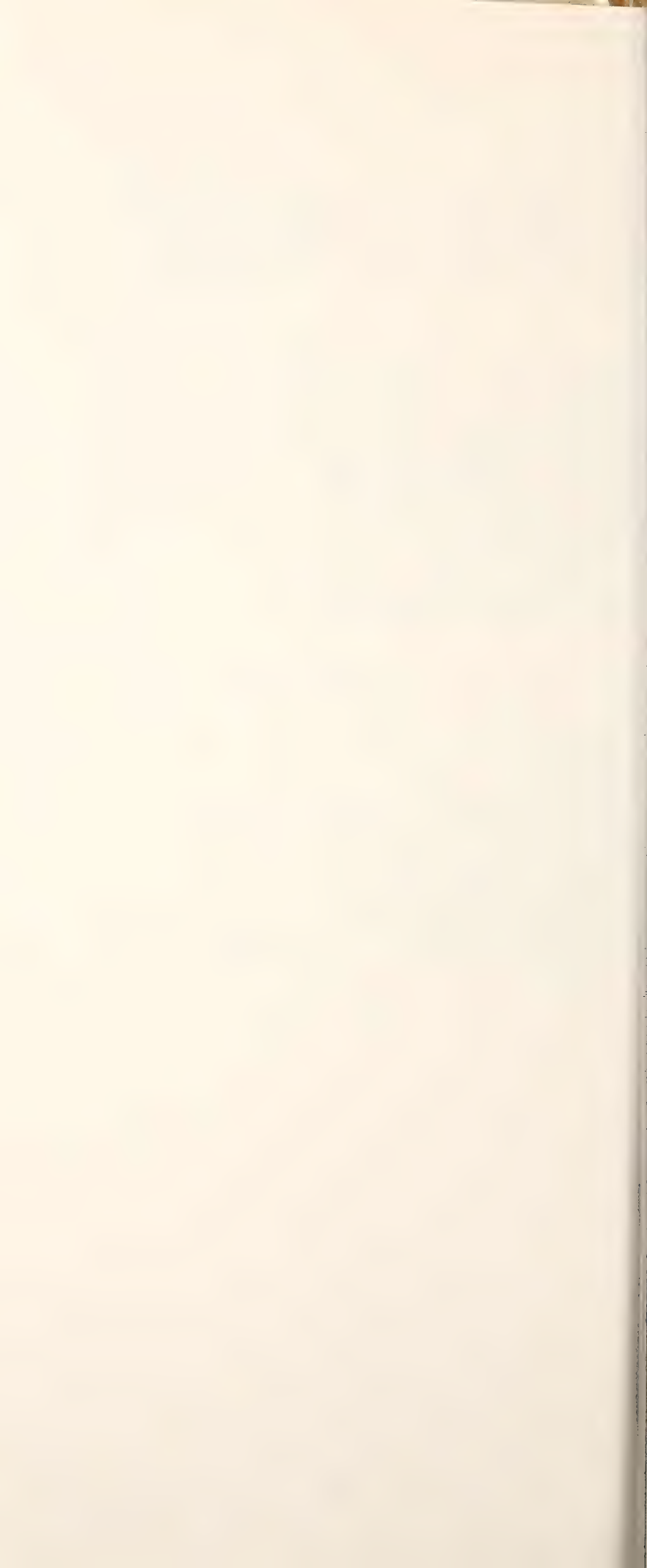
# Board of Trustees and Officers of Instruction

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# 1/ Teacher Education Programs

## Introduction

This official document of Southern Illinois University, Carbondale Campus, presents general and specific information on the preparation of teachers in elementary, secondary, and special programs. It has been developed to serve as a guide for the student preparing for a career in the teaching profession.

Admission to, retention in, and completion of an approved teacher education program of Southern Illinois University, Carbondale Campus, are administered by the dean of the College of Education. All inquiries about the various programs may be directed to his office.

## *New Administration Procedure*

When a student decides on the teacher education program of his choice, he may make application according to the regulations stated herein. Formal application for admission to a teacher education program must be made through the assistant dean's office of the College of Education and *approval must be granted prior to entrance* into professional education coursework (either Elementary Education 314 or Elementary Education 316 for elementary, early childhood, and special education students; Secondary Education 310 for secondary and some special education students).

Application forms for admission to a teacher education program at Southern Illinois University, Carbondale Campus, may be secured at the dean's office, College of Education, Wham Building, Room 115.

## General Information

Teacher education programs are an important part of a growing list of professional programs in higher education. The uniqueness of a profession is that it assumes responsibility for its own standards of performance. The student entering the teaching profession will find it is better characterized by how

## 2 / Teacher Education Programs

it is operated than by any special course of preparation. The teaching profession has a further responsibility. It is the means through which society receives its formal training. Thus teacher preparation of the highest quality must be the first concern of the teaching profession.

The National Education Association has established the following goals toward which the teaching profession should move:

1. The development of high standards for entrance into teaching;
2. The legal adoption of certification requirements to assure competent service;
3. The maintenance of plans for accrediting institutions for teacher education;
4. The enforcement of the requirements that final certification be based on evidence of successful teaching during probation.

There is no way to insure that all prospective teachers will be good teachers, but a step in that direction can be taken by enrolling in the best teacher education program available. A good teacher education program has been described as one including general education, specialization and professional education.

The caliber of a teacher education program is determined to a large degree by the admission and retention policies as evidenced by requirements, standards, and procedures. Obviously, the indiscriminate use of provisional or probationary status as an entrance to teacher education is generally viewed as unsound admission practice. The sincerity with which an institution complies with its entrance requirements is extremely important.

### *Some Characteristics of a Good Teacher*

An essential and persistent question asked is, "What makes a good teacher?" There is no single quality which can be used to describe a good teacher. However, some characteristics advanced by the National Education Association and generally considered to be essential for a good teacher are as follows:

1. General intelligence, that includes the ability to pass college work, to assimilate learning, to understand cultural backgrounds, and to understand students and how the learning process takes place;
2. A thorough understanding and basic knowledge of and about the subject matter taught;
3. Good verbal facilities that enable the teacher to express himself and present his subject matter well;

4. Creative ingenuity that allows the teacher to make class work so interesting that the student will want to learn;

5. Physical energy and drive;

6. Moral and personal prerequisites such as patience, considerateness, emotional stability, good judgment, and leadership.<sup>1</sup>

Admittance to a teacher education program is determined to a large degree by how well one measures up in terms of possessing these essential characteristics.

Students seeking admission to a teacher education program through transfer from another institution or another program at Southern Illinois University must meet the standards required of regularly enrolled students.

## **Standards For Admission To A Teacher Education Program**

### *Unconditional Admission*

A student may apply for admission to a teacher education program with a minimum of 64 quarter hours of academic work. To be eligible for unconditional admission a student with from 64 to 102 quarter hours must have a cumulative grade point average of at least 3.00 on a 5.00 scale. A student applying for admission with 103 to 143 quarter hours must have at least a 3.10 cumulative grade point average. A student with more than 143 quarter hours at the time of application for admission must have at least a 3.20 cumulative grade point average. To apply for a student teaching assignment, a student must have been unconditionally admitted to a teacher education program. Before beginning a student teaching assignment, the student must have at least a 3.25 cumulative grade point average.

### *Provisional Admission*

A student may seek provisional admission to a teacher education program under the following conditions:

1. If he has 103 to 143 quarter hours of credit with a cumulative grade point average between 3.00 and 3.09 provided the grade point average in his teaching specialization is at least 3.20.

2. If he has more than 143 quarter hours of credit with a cumulative grade point average between 3.10

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<sup>1</sup> National Education Association, *Teaching Career Fact Book*, 1964.



## 4 / Teacher Education Programs

and 3.19 provided the grade point average in his teaching specialization is at least 3.30.

3. For a student planning to teach at the secondary level, the teaching specialization will include the subject matter concentration plus all education courses.

### *Student Teaching Prerequisites*

1. Preliminary application should be made to the director of Student Teaching during the *winter quarter one year prior to graduation*.

2. A final, detailed application must be completed *two quarters* in advance of the student teaching assignment.

3. A student must have 128 quarter hours of credit with a minimum of a 3.25 cumulative average before beginning work in student teaching.

4. The student is responsible for having all transcripts of credit earned at colleges or universities other than Southern Illinois University on file in the office of the director of Student Teaching. (This requirement does *not* apply for credits earned at Southern Illinois University.)

5. Before Student Teaching, the student in secondary education must have at least 16 quarter hours of credits in the subject which he proposes to teach. Such credit must meet the approval of the respective department chairman. The subject or subjects must be "public school major" teaching subjects.

6. Each student must have at least 11 quarter hours in professional education courses prior to doing student teaching. He must have successfully completed a course in each of the subjects listed under the appropriate heading below:

SECONDARY: general psychology, educational or adolescent psychology, secondary teaching methods (a special secondary methods course is accepted only for teaching in the respective major teaching area), and history and principles of secondary education.

ELEMENTARY: general psychology, educational or child psychology, reading methods and elementary methods.

EARLY CHILDHOOD EDUCATION: general psychology, educational or child psychology, reading methods, and kindergarten-primary methods. Each student in early childhood education must also be approved in class piano and must take secretarial and business education 241.

7. Each student must have major academic training in a public school teaching subject which meets

the approval of the respective department chairman.

8. At the end of the fall quarter, 1966, English 391 and the Undergraduate English Qualifying Examination were replaced with a new General Studies series. Students majoring or minoring in English must complete English 300a and 300b securing a grade of *C* or better. All other students must have completed GSD 101, 102, and GSC 103 with a composite average of *C* or better. Students who have a *C* average in the former English series (GSD 101a, 101b, and GSC 103) will have met the English proficiency requirement. Students who failed to receive a *C* average or better in the old English composition series, will need to contact the director of English for General Studies, to determine how the English proficiency requirement is to be satisfied. In no case can a student receive credit for both GSC 103 (old content) and GSC 103 (new content).

9. The student must have established at least one quarter of residence at Southern Illinois University, earning a minimum of 16 quarter hours of credit, prior to any student teaching assignment.

10. Every student teacher must have a health clearance from the University Health Service. The health clearance consists of a tuberculin test. If it is not convenient to come to the Health Service in Carbondale, the student may have a tuberculin test by his own medical doctor. The report must be filed with the Health Service.

11. Application for admittance to the Student Teaching program will be made with respect to the above mentioned prerequisites two quarters in advance of the student teaching assignment.

*General Studies Requirements for All  
Bachelor's Degree Candidates*

QUARTER HOURS		
GSA—Man's Physical Environment and Biological Inheritance . . . . .		
Level 1	GSA-1	8
Level 2	GSA-2	8
Level 3	GSA-3	6
GSB—Man's Social Inheritance and Social Responsibilities . . . . .		
Level 1	GSB-1	8
Level 2	GSB-2	8
Level 3	GSB-3	6
GSC—Man's Insights and Appreciations . . . . .		
Level 1	GSC-1	9
Level 2	GSC-2	7
Level 3	GSC-3	6

6 / Teacher Education Programs

GSD—Organization and Communication of Ideas .....	18
Level 1      GSD-1 .....	9
Foreign Language, or GSD Mathematics .....	9
GSE—Health and Physical Development .....	6
NOTE: It is possible to waive six hours at the third level in that area most closely related to the student's major teaching area.	
Total .....	90
If a third-level sequence is waived the total is only .....	84

**Procedure For Admission To  
A Teacher Education Program**

*Undergraduate Students*

Any student who expects to complete a program of teacher education at Southern Illinois University must be officially admitted to a teacher education program. Application forms for admission to a teacher education program for an undergraduate student can be secured from the dean's office of the College of Education, Wham Building, Room 115. These forms must be completed by the student and then given to (1) his academic adviser, (2) the chairman of the department of his major teaching area, for secondary and special education students only, (3) either the chairman of the Department of Elementary Education or Secondary Education, and (4) the assistant dean for undergraduate studies, College of Education, for their review and recommendation for approval (or disapproval). The forms must then be returned to the assistant dean for undergraduate studies for the official record of approved students in teacher education programs. This entire transaction *must take place prior to entrance* into the professional sequence of education coursework. The professional education coursework starts with Elementary Education 314 or 316 for elementary, special, and early childhood education students. For secondary education and some special education students it starts with Secondary Education 310.

*Graduate Students*

Application forms for admission to a teacher education program for a post-baccalaureate student who desires teaching certification can also be secured in the dean's office of the College of Education, Wham Building, Room 115. These forms must be completed by the student and then given to the grad-



uate dean, the assistant dean for undergraduate studies of the College of Education, and the graduate adviser (if the student has been admitted to a program leading to a master's degree) for their review and recommendation for approval (or disapproval). These forms must then be returned to the assistant dean for undergraduate studies for the official record of approved students in teacher education programs.

### **Certification of Teachers**

A teaching certificate is, for all practical purposes, a license to teach in a given state, at a specific level and in a certain type of job. Illinois, like other states, requires its public elementary and secondary teachers, as well as other specialized personnel, to hold certificates to ensure that pupils are taught only by persons who meet specified standards of preparation, health, age, citizenship, and character. Being certified by one state does not necessarily mean that a teacher will qualify for certification in any other state. One reason for this situation is that even minimum requirements for the lowest teaching certificate vary widely from state to state. However, more than half the states accept the certificates of teachers who graduate from teacher education programs in other states if the programs are accredited by the National Council for Accreditation of Teacher Education (NCATE). Southern Illinois University is accredited by NCATE. Three general types of teaching certificates are being issued to school personnel in Illinois: the Standard Elementary School Certificate, the Standard Special Certificate, and the Standard High School Certificate.

#### *General Requirements for All Teacher Education Programs*

To qualify for any of these certificates it is required by law that a person must complete a course in American history and/or American government. A further requirement is that anyone renewing a teacher's certificate in the State of Illinois must pass an examination "upon the provisions and principles of the Constitution of the United States and of the State of Illinois."<sup>1</sup> Both of these requirements may be met by successfully completing one of the following courses: GSB 211b (government), Government 231, Government 300, GSB 300a (history).

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<sup>1</sup> The School Code of Illinois, Circulation Series A, No. 170, Issued by the Office of the Superintendent of Public Instruction, State of Illinois, P.211, 1965.

## 8 / Teacher Education Programs

### *Standards for Recommendation for Certification*

A student in a teacher education program must file an application requesting recommendation for certification with the dean of the College of Education. This application must be filed prior to the beginning of his final quarter.

The student's record must show evidence of meeting the University's graduation requirements, professional education requirements and requirements in his teaching area. For final recommendation, the student must have a grade point average of 3.25, evidence of satisfactorily completing student teaching, and the recommendation of his department and his dean.

### *Elementary School Certification*

Although the elementary school teacher's certificate covers grades kindergarten through nine, the most common type of elementary school organization is kindergarten through grade six. In elementary schools, teachers usually are assigned to a home-room group of children with the responsibility for the major share of the classroom teaching for a particular grade. The individual teacher preparation program is slanted toward the age group level selected by the potential teacher as his teaching grade level preference, whether primary, intermediate, or junior high. Secondary school teachers also qualify for junior high school teaching by meeting the high school certification standards.

Various plans of organization are under consideration and in operation in many schools which are departures from the traditional self-contained classroom. Innovations in school organization, curriculum, and instructional techniques, including some departmentalization and team teaching, have pointed to a need for more specialized training of elementary school teachers. Special teachers of art, music, physical education, remedial reading, speech, and foreign languages are examples of departures from the self-contained classroom. The cooperative teaching approach is based upon the assumption that any teacher may excel in some but probably not all, of the instructional areas in teaching skills and techniques. With the emphasis toward more specialization for elementary school teachers, teacher education institutions are faced with the responsibility to provide the kind of program necessary to prepare teachers for the schools of tomorrow. These trends call for continuous revision of teacher-

preparation programs and state certification standards.

The existing programs at Southern Illinois University for training of elementary school teachers, as far as general and professional course requirements are concerned, are as follows:

*Early Childhood Education*

Professional Education Requirements

QUARTER HOURS

Educational Administration 355, Philosophy of Education .....	4
Guidance 305, Educational Psychology ....	4
Elementary Education 316, Kindergarten-Primary Methods and Curriculum .....	4
Elementary Education 309, Kindergarten-Primary Social Studies Methods .....	3
Elementary Education 337, Teaching Reading .....	4
Student Teaching .....	16
Education electives (See list below) .....	13
Total .....	48

General Requirements

GSB 300b,c .....	6
Government 300, American Government, or GSB 211b .....	4
Math 310, Teaching Elementary Mathematics .....	4
Physical Education-Women 319, Teaching Group Activities .....	4
Art 300, Art Education .....	4
Technical and Industrial Education 302, Construction Methods for Primary Teachers .....	4
Music 300b, Music Methods for non-music majors .....	3
Secretarial and Business Education 241, Duplicating .....	1
Music 040, Piano .....	3
Area of specialization (See list below) ....	12
Total .....	45

*Elementary Education*

Professional Education Requirements

Educational Administration 355, Philosophy of Education .....	4
Guidance 305, Educational Psychology ....	4
Elementary Education 314, Elementary School Methods .....	4



## 10 / Teacher Education Programs

Elementary Education 337, Teaching Reading .....	4
Student Teaching .....	16
Education electives (See list below) .....	16
Total .....	48

### General Requirements

GSB 300b, 300c .....	6
Government 300, American Government, or GSB 211b .....	4
Math 310, Teaching Elementary Mathematics .....	4
Physical Education-Women 319, Teaching Group Activities .....	4
Language Arts Electives .....	7
Art and Music electives .....	9
Area of Specialization (See list below) ....	12
Total Hours .....	46

### Recommended Education Electives

Elementary Education 100, Introduction to Elementary Education .....	3
Elementary Education 203, Understanding the Child .....	3
Elementary Education 413, Children's Literature .....	4
Elementary Education 415, Improving Mathematics Instruction .....	4
Elementary Education 442, Teaching Elementary School Science .....	4
Instructional Materials 417, Audio-Visual Methods and Techniques .....	4
Guidance 422a, Tests and Measurements ...	4
Guidance 412, Mental Hygiene .....	4
Guidance 442, Basic Principles of Guidance	4
Speech 401, Creative Dramatics .....	4
Speech 441, Teaching Speech in Elementary Schools .....	4
Speech Pathology and Audiology 428, Speech Correction for the Classroom Teacher ...	4
Special Education 414, The Exceptional Child .....	4
Special Education 410, Problems and Characteristics of Various Types of Exceptional Children	
410a, Emotionally Disturbed Child .....	4
410b, Mentally Retarded Child .....	4
410c, Gifted Child .....	4
410d, Acoustically Handicapped Child ...	4

### Area of Specialization

Each student in Elementary and Early Child-

hood Education selects one of the areas listed below and completes at least 12 quarter hours of course work in addition to courses used to meet requirements for the degree. This work will apply toward the minimum of 192 quarter hours required for graduation. The approved areas include: art, foreign languages, health and physical education, language arts, library science, mathematics, music, science, social studies, and special education.

### *The Special Certificate*

The Special Certificate is valid for teaching the special subject or subjects named on the certificate in grades kindergarten through 12. This certificate may be issued to anyone who has been admitted to a teacher education program and who has completed the General Studies Requirements for All Bachelor's Degree Candidates as listed on page 5 and the General Requirements for All Teacher Education Programs as listed on page 7.

### Professional Education Requirements

	QUARTER HOURS
Guidance 305, <sup>1</sup> Educational Psychology	4
Secondary Education 315, <sup>2</sup> High School Methods or Special Methods . . . . .	3-4
Secondary Education 310, <sup>2</sup> History & Principles of Secondary Education . . .	4
Secondary Education 352 and Elementary Education 351, Student Teaching	12-16
Total . . . . .	<u>23-28</u>

Select two (2) courses from the following:	
Agricultural Industries 311, Adult Education in Agriculture . . . . .	3
Art 308, Curriculum and Administration in Art . . . . .	3
Educational Administration 355, Philosophy of Education . . . . .	4
Home Economics Education 310, Adult Education and Evaluation . . . . .	4
Instructional Materials 417, Audio-Visual Methods . . . . .	4
Secondary Education 407, The Junior High School . . . . .	4
Secondary Education 440, Teaching Reading in High Schools . . . . .	3
Industrial Education 408, Teaching Aids in Technological Education . . . . .	3

<sup>1</sup> GSB 201c is a prerequisite for Guidance 305.

<sup>2</sup> Guidance 305 is a prerequisite for Secondary Education 310 and Secondary Education 315.

12 / Teacher Education Programs

The teaching major must consist of at least 48 quarter hours in the academic specialization. The Special Certificate is most often issued to teachers who teach the same subject at both elementary and secondary school levels. The most common subject areas where the Special Certificate is used are music, art, and physical education.

*High School Certification*

Secondary school teachers work in both junior and senior high schools, with students in grades six through twelve. The majority of high schools are general or comprehensive schools providing a wide range of curricular offerings. A decision to teach in secondary schools should be based on at least two considerations: whether one likes teenagers and feels he can work well with them and whether he wants to limit the subject matter he teaches to a core of related subjects or a single speciality. In both junior and senior high schools a teacher's subject specialty will probably be confined to one or two related areas. It is usually a practice for schools to assign teachers to teach only in the subject in which they are most expert. However, the small schools confronted with teacher shortage sometimes assign teachers to teach in multiple specialties.

PROFESSIONAL EDUCATION REQUIREMENTS—  
STANDARD HIGH SCHOOL CERTIFICATE

The following professional education sequence will meet the professional course requirements as well as Southern Illinois University's approved program for the Standard High School Certificate. (Valid for teaching in grades six through twelve of the common school.)

Guidance 305, <sup>1</sup> Educational Psychology .	4
Secondary Education 310, <sup>2</sup> History & Principles of Secondary Education ...	4
Secondary Education 315, <sup>2</sup> High School Methods or Special Methods .....	3-4
Secondary Education 352, <sup>3</sup> Student Teaching .....	12-16
Select two courses from the following: ..	6-8
Agricultural Industries 311-3, Adult Edu- cation in Agriculture	
Art 308-3, Curriculum and Administra- tion in Art	

<sup>1</sup> GSB 201c is a prerequisite for Guidance 305.

<sup>2</sup> Guidance 305 is a prerequisite for Secondary Education 310 and Secondary Education 315

<sup>3</sup> See page 4 Student Teaching Prerequisites.



Educational Administration 355-4, Philosophy of Education	
Guidance 422a, Educational Measurements & Statistics	
Home Economics Education 310, Adult Education and Evaluation	
Technical and Industrial Education 408-3, Teaching Aids in Technological Education	
Instructional Materials 417-4, Audio-Visual Methods	
Secondary Education 407-4, The Junior High School	
Secondary Education 440-3, Teaching Reading in High Schools	

All students must have a minimum of . .	32
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#### MAJOR TEACHING AREAS

The major teaching area is a field of specialization built on a clearly formulated statement of the competencies needed by teachers in a specific teaching area. The academic specialty should include the attitudes, knowledge, understandings, and skills required, as well as the degree of expertness necessary for a beginning teacher.

A major teaching area must consist of at least 48 quarter hours in an academic area. It should reflect a planned program which allows a student to achieve the teaching competencies necessary. It is possible for a person to qualify for a secondary certificate with three minor teaching areas. These minor areas must meet, at least, the minimum hours required for teaching in the academic areas selected. In every case the field of specialization should include provisions for a systematic evaluation to determine the degree to which the student has achieved the teaching competencies necessary for successful teaching in each particular area.

#### ACADEMIC SPECIALIZATION

One major area of specialization . . . . .	48
or	

Three minor areas of specialization with a sufficient number of hours to meet the minimum requirements for teaching in each area. (24-27-30-36) . . . . .	72-108
Some courses which are counted as General Studies may also be counted as part of the hours required for major and/or minor areas of specialization	

## 14 / Teacher Education Programs

The academic major and minor teaching areas and the appropriate coursework as required at this printing, September, 1967, are listed in the following two chapters.

## 2 / Major Teaching Areas

Many of the courses listed in this chapter and the next one will be followed by this symbol \*. This is to denote that this course may be taken to meet General Studies and professional education requirements. These requirements range from 116 to 131 quarter hours.

Some of the numbers in the quarter hours column will be in parentheses. This indicates that the number of hours in the parentheses has been counted, for this course, as General Studies requirements and cannot be counted again in the required hours for a teaching area.

For examples of the use of these markings see the agricultural education section listed directly below.

### Agricultural Education

	QUARTER HOURS
GSA 101 .....	(8)
GSB 211a .....	(4)
GSD 103, 108, 110 or Mathematics 111 (12) + 1	
Agricultural Industries 114, 210, 215, 309,*	
311,* 312a,* 312b,* 350, <sup>1</sup> 373, <sup>2</sup> 375, <sup>3</sup> and one	
additional course .....	46
Animal Industries 105, 315, and one additional	
course .....	12
Plant Industries 103, <sup>4</sup> 309, <sup>5</sup> and one additional	
course .....	12
Electives in Agriculture .....	2
Total required for major teaching area .....	73

<sup>1</sup> Prerequisite: GSB 211a \*

<sup>2</sup> Prerequisite: GSD 108b \*

<sup>3</sup> Prerequisite: GSD 108b \*

<sup>4</sup> Prerequisite: High School or Concurrent College Chemistry

<sup>5</sup> Prerequisite: GSA 201a \*

### Art

GSC 341,* 342 * .....	6
Art 100, 200, 225a, 225b, 225c, 302, 306,* 307,	
308,* 300a or 365, 332, 385 .....	67
Electives in Art .....	24
Total required for major teaching area .....	97



### Biological Sciences

Chemistry (Must include equivalent of Chemistry 111b,c) .....	15
Botany 300, 301, 313 .....	9
Microbiology 301, 302 .....	10
Zoology 102, 103, 402 or 403 .....	14
Botany 315 or Zoology 401 .....	4-5
Botany 341 or Zoology 310 .....	4-5
GSA 301 and Botany 320, or Physiology 315a,b and c .....	9-15
Electives from Botany, Microbiology, Physiology, and Zoology .....	2-11
Total required for major teaching area ....	75-76

### Botany

GSA 201a,* 201b * .....	8
GSA 340 * and 345 * .....	6
Botany 300, 301 .....	6
Electives in Botany .....	28
Total required for major teaching area .....	84

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for biological science or general science teaching certification, and a minor teaching area in zoology is recommended to enable the student to certify to teach biology and botany.

### Business Teacher Education

Accounting 251a .....	4
Economics 214 .....	3
Finance 371 .....	4
Management 170 or Finance 320 .....	4
Marketing 225 .....	3
Secretarial and Business Education 201a .....	3
Total required for the above courses .....	21
Preparation to teach in a minimum of four of the following areas:	
Area 1—Typing Secretarial 201b, 201c, 241, 304 .....	10
Area 2—Shorthand and Transcription Secretarial 221a, 221b, 221c, 324a, 324b ...	20
Area 3—Bookkeeping or Record Keeping Accounting 251b, 251c .....	8
Area 4—General or Basic Business Economics 215, Management 340, Marketing 325 .....	11

## Business Teacher Education / 17

Area 5—Office Practice and Machine Re-	
quired courses for Area 1 Secretarial	
326, 341, Management 271 .....	22
Area 6—Business Law—Finance 372, 373	8
Area 7—Salesmanship and other Distribu-	
tive Education Subjects—Marketing 325,	
329, 337 .....	12
Two of the following: Secretarial and Busi-	
ness Education 403, 404, 405, 406, 408 ..	6-7
Total Required From The Above Areas .....	36
Electives .....	12-17
Total required for major teaching area ....	69-74

Nine hours of typing and 16 hours of shorthand may be acquired through proficiency. Credits given for college transfers only.

### Chemistry

Chemistry 111b <sup>1</sup> and 111c <sup>1</sup> .....	10
Chemistry 235, 305a, 305b, or 341a, 341b,	
341c .....	9-15
Chemistry 460 <sup>2</sup> or 461 .....	5-12
Electives in major area .....	11-24
Total required for major teaching area ....	48

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for the General Science certification.

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<sup>1</sup> Prerequisites: Chemistry 111a or GSA 101 plus lab, or High School Chemistry

<sup>2</sup> Prerequisites: Physics 206a, 206b, 206c, and GSD 114a,b,c.

### Economics

GSB 211a * and 311 * .....	6
GSD 110 * <sup>1</sup> .....	3
GSB 211a * and 311 * .....	6
Economics 214, 215, 310, 315, 330, 440, 441 ...	26
Electives (except Economics 301, 433 and 490)	
to total required hours .....	13
Total required for major teaching area ....	48

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for social studies certificate.

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<sup>1</sup> Prerequisites: GSD 108b \* or 114b.\*

### English

GSC 201,* <sup>1</sup> 202,* <sup>1</sup> and 210,* <sup>1</sup> .....	9
English 300a, 300b, 302a, 302b, 302c, 309a and	

18 / Teacher Education Programs

309b, or 309a and 309c, 390, and 485,* plus one 400-level English course from each of the following: Poetry, Drama, and Fiction <sup>2</sup> . . . .	41
Two years of college work in one foreign language . . . . .	18
Total required for major teaching area . . . . .	68

<sup>1</sup> Prerequisite: GSC 103  
<sup>2</sup> Departmental honors program students may take English 497a,b,c (12 hours). Some students, with Departmental approval, may take English 302a,b,c (12 hours) and 309a (4 hours).

Foreign Languages

GSD 140a,* 140b,* 140c* . . . . .	9
Spanish 201a, 201b, 201c, <sup>1</sup> 310a, 310b, 310c, 320a, 320b, 320c, 333a, 333b, 333c . . . . .	27
Spanish (400-level) a minimum of 3 hours (may include Roman philosophy) . . . . .	3
Spanish electives . . . . .	9
Total required for major teaching area . . . . .	48

Concentrations are available in French, German, Spanish, Russian, Greek and Latin. Other concentrations follow the model presented. Students having four years of high school Spanish begin with 300-level courses.

<sup>1</sup> Prerequisites: 2 years of high school Spanish or one year college Spanish.

Geography

GSA 330 * and 311 * . . . . .	(6)
GSB 101a * . . . . .	(3)
GSD 100 *-level foreign language . . . . .	(9)
Geography 300, 302, 304, 306, 310a, 400, 490a, 490b, 490c . . . . .	27
Geography—at least 2 sequences at 400-level . .	14
Geography electives . . . . .	7
Total required for major teaching area . . . . .	48

It is recommended that the student complete the Illinois Office of Public Instruction's requirements for a social studies major teaching area.

Government

48 hours to be selected from the following:	
GSB 211b, GSB 385 * and 390 * . . . . .	10
Government 231, 232, 305, 315, 330, 360, 371, 379, 380, 420, 466, 467, 472, 495 . . . . .	38
Total required for major teaching area . . . . .	48



It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for a social studies major teaching area.

### Health Education

Health Education 300, 301, 305, 312, 325, 334s, 400, 405, 471, 491 .....	37
Electives in Health Education .....	11
Total required for major teaching area .....	48
Microbiology 301 and GSA 301 .....	9

Students electing majors in health education are encouraged to secure 35 quarter hours in natural science or, if preferred, to secure a secondary concentration in biological science consisting of GSA 201a,\* 201b,\* and GSA 301 \*; Botany 300, 301, 313, 449; Zoology 102, 103; and Microbiology 301.\* Other suggested concentrations in related fields are physical education, home economics education and recreation.

### History

GSA 101a,* 101b * .....	8
GSA 300a,* 300b,* 300c * .....	9
History 452 .....	3
Electives: 300- or 400-level history courses with not less than 9 quarter hours in U.S. History and 6 quarter hours in foreign history with at least as many 400- as 300-level courses to total .....	28
Total required for major teaching area .....	48

### Home Economics

GSA 101a, 301; GSB 102-8; 211-8; GSC 101, 102, 103 .....	(24) + 9
Chemistry 110, 240 .....	(4) + 4
Clothing and Textiles 127, 131, 135, 233, 327 .	16
Food and Nutrition 100, 256, 320, 335 .....	15
Home and Family 227, 237, 323, 324, 331, 332, 341, 345b .....	25
Home Economics Education 111, 309-6,* 310 *	12
Electives in home economics .....	3
Electives in education .....	3
Electives .....	1
Total required for major teaching area .....	87

### Journalism

Journalism 101, 102, 103, 201, 202, 303, 390,

## 20 / Teacher Education Programs

421, 422 .....	28
Electives in journalism (Recommended electives are: Journalism 214, 260a, 370, 391) .....	20
Total required for major teaching area .....	48

### Language Arts (with Social Studies, for Junior High School)

GSB 101a,* 101b,* 101c,* 201a,* 201b,* 211a,* 211b,* 300a,* 300b,* 300c * .....	30
GSC 201,* 202,* 210,* 301,* 345 * .....	15
GSC elective in Literature * .....	3
GSD 101a,* 101b,* 103 * .....	9
GSE 200 * .....	3
English 300, 302a, 302b (or) 302b, 302c, 309a, 309b, 390 .....	23
Journalism 101 .....	3
Instructional Materials 405 .....	4
Government 202 .....	5
Geography 302 .....	4
Electives .....	9
Total required for major teaching area .....	108

### Mathematics

Mathematics 111a,* 111b,* 150a, 150b, 252a, 252b, 311,* 320a, 320b .....	38
Physics 211a .....	5
Electives (with departmental approval) from the following: Mathematics 335a, 335b, 458a, 458b .....	10
Total required for major teaching area .....	53

The student must earn a C or better for courses number 150 or higher to count towards the major.

### Music

GSC 357a, 357b, 357c .....	(6) + 3
Music (theory) 105-12, 205-9, 326-9 or 441-6 .....	(3) + 24
Music (education) 300a, 305i or v; 309a, 318a,b	12
Music (applied) 11 quarters of major ensemble and 11 quarters or major instrument or voice	33
Piano proficiency or class .....	0-6
Voice proficiency or class .....	0-1
Music: class woodwinds, brass, and strings (2 hours except in major area and one hour of percussion-required of instrumental or com- bination majors) .....	6

Music electives to increase specialization in instrumental music and vocal music . . . . .	4
Total required for major teaching area . . . .	82-89

### Physical Education—Men

GSE * (Any three of the one-hour activity courses, or	
Physical Education—Men 100A through M, <sup>1</sup> 101, 303, 305, 341, 350,* 354, 355, 370, 376, 420 <sup>2</sup> . . . . .	46
Physiology 300 . . . . .	4
Physical Education—Men: Any one sports theory course . . . . .	2
Total required for major teaching area . . . . .	52

<sup>1</sup> Four Quarter Hours of the total may be counted in the previously listed teaching methods requirements.

<sup>2</sup> Prerequisite: GSA 301

### Physical Education—Women

Physical Education—Women 113, 114, 211, 212, 222, 224, 228, 242, 244, 303, <sup>1</sup> 304a, 304b, 304c, 304d, 304e, 308, <sup>2</sup> 350, 351, 352, 353, 354, 355, 370 . . . . .	53
Health Education 334s and 460 (or 350 for Elementary Education) . . . . .	8
Electives . . . . .	5
Total required for major teaching area . . . . .	66

<sup>1</sup> Prerequisite: Physiology 300-3.

<sup>2</sup> Four hours have been counted previously in meeting the general education methods requirements.

### Physical Science

GSA 201a,* 201b,* 201c,* 301,* 312 * . . . . .	16
Chemistry 111a, 111b, 111c, 230, 305, 305b . . . .	27
Physics <sup>1</sup> 206a, 206b, 206c, 310 . . . . .	20
Microbiology 301 . . . . .	5
Astronomy 201 . . . . .	4
Botany 300, 301 . . . . .	6
Zoology 102, 103 . . . . .	10
Total required for major teaching area . . . . .	88

<sup>1</sup> Prerequisites: GSD 114a, 114b, 114c.

### Physics

Physics 206a, 206b, 206c, or 211a, 211b, 211c . . . . .	9-15
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22 / Teacher Education Programs

33 hours of 300-level or above Physics courses including 301, 305a, 305b, 415a, 415b, 415c, 415d and six hours of laboratory courses selected from 307, 311, 312, 418 .....	27
Electives .....	7-15
Total required for major teaching area ....	49-51

The prerequisites for each course in the left hand column below is listed in the middle column below. The prerequisites for the courses in the middle column are listed in the right hand column.

<i>Physics</i>	<i>Prerequisites</i>	<i>Math Prerequisites</i>
206a,b	GSD 114c *	3 sem. hrs. of H.S. Algebra
211a,b	Math 150b	Math 150a
300	Math 252b	Math 150b and 252a
301a	Math 305a	Math 252b
304	Math 252b	Math 150b and 252a
305	Math 305a	Math 252b
405	Math 305a	Math 252b
413a,b	Math 305a	Math 252b

Social Studies

GSA 330 * or 331 * .....	3 <sup>1</sup>
GSB 101a,* 101b,* 101c,* 201b,* 201c,* 211a,* 211b,* 211c,* 300a,* 300b,* 300c * .	33 <sup>1</sup>
Economics 214, 215 .....	6
Government 232 .....	5
Sociology 301 .....	4
Geography 300, 302, 304, 306 .....	16
Electives: To total a minimum of 12 hours in each of the following: American history, civics and political science, economics, geography, sociology, world history, and 8 additional hours from American history .....	30
Total required for major teaching area .....	97

<sup>1</sup> 27 hours of this total may be used to meet general studies requirements as follows: GSB 24 hours, GSA 3 hours

Special Education

*Education of the Mentally Retarded*

Special Education 410b, 413b, 414, 420b .....	16
Elementary Education 351b (Student teaching mentally retarded) .....	12
Guidance 422a .....	4
Speech Pathology and Audiology 428 .....	4
Electives (300-level or above) .....	8
Total required for major teaching area .....	44

*Education of Maladjusted Children*

Special Education 410a, 411, 413a, 414, 420a .....	20
Elementary Education 351b (Student teaching with Emotionally Disturbed), 437 ...	12-16
Psychology 305, 307, 431, 465 .....	16
Sociology 426 .....	4
Total required for major teaching area ....	52-56

*Education of the Acoustically Handicapped*

Special Education 410d, 414, 415, 420d, 421 ..	20
Instructional Materials 301 .....	2
Psychology 301 .....	4
Guidance 422a .....	4
Physiology 414 .....	4
Speech Pathology and Audiology 200, 405a, 406, 416, 419 .....	20
Total required for major teaching area .....	54

**Speech**

GSC 200, 203 .....	(6)
GSD 103 .....	(3)
Speech 102, <sup>1</sup> 200 or 104, 202, 205, 209, 323, <sup>1</sup> 427	23
Theater 111a or 111b or 111c, 208, and 402a ..	8
Speech Pathology and Audiology 428.....	4
Radio-Television 367 .....	3
Electives in Speech or Theater .....	10
Total required for major teaching area .....	48

<sup>1</sup> Prerequisite: GSD 103<sup>2</sup> Prerequisite: GSC 200**Speech Pathology and Audiology**

GSB 201c .....	(4)
GSB 201b or 211b or 300a or Government 300 .....	(3-4)
GSD 103 * .....	(3)
Speech Pathology and Audiology 200, 203 or 409, 212, 318, 319, 405a,b,c, 406, 412 or 415, 414, 416, 419 .....	52
Psychology 301 <sup>1</sup> .....	4
Guidance 305 <sup>1</sup> or Guidance 412 <sup>1</sup> or Health Education 312 .....	4
Guidance 422a .....	4
GSB 331 .....	3
Special Education 200 or 414 .....	4
Elementary Education 314, 337 .....	8
Elementary Education 351 .....	12-16

## 24 / Teacher Education Programs

Electives .....	5-11
Total required for major teaching area ....	97-103
Practicum 200 clock hours required	

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<sup>1</sup> Prerequisite: GSB 201c \*

### Technical and Industrial Education

#### *Industrial Arts Teaching*

GSA 358 .....	(6)
Mathematics 111 .....	(9) + 1
Technology 100, 101a, 101b, 300c .....	11
Technical and Industrial Education 300a, 306a, 309a, 312a, 320a, 327a, 343a .....	23
Technical and Industrial Education 308, 408,* 419 .....	15
Electives (Selected to provide three teaching areas of 12 hours each) .....	36
Total required for major teaching area .....	84

#### *Trades and Industries Teaching*

GSA 358 .....	(6)
Mathematics 111 .....	(9) + 1
Technology 100, 101a, 101b, 300 .....	11
Technology 259, Concentration in Spe- cialty .....	45
Technical and Industrial Education 319 ..	12-24 <sup>1</sup>
Technical and Industrial Education 408, 491, 494, 495, 496 .....	15
Total required for major teaching area ...	83-95

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<sup>1</sup> Hours depend upon number of months of trade experience.

### Zoology

GSA 201a,* 201b * .....	4
Zoology 102, 103, 202, 300, 310, 382, 401 .....	31
Electives (May include GSA 312,* 313,* or 315 *) .....	13
Total required for major teaching area .....	48

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for biological science or general science teaching certification, and a minor teaching area in botany is recommended to enable the student to certify to teach biology and botany.



# 3 / Minor Teaching Areas

## Biological Sciences

	QUARTER HOURS
GSA 201a,* b * or 202a,* b *	8
Botany 300, 301	6
Microbiology 301	5
Zoology 102, 103	10
Biology Electives	5
Total required for minor teaching area	36

## Botany

GSA 201a,* 201b,* 340,* 345 *	(4) + 10
Botany 300, 301	6
Electives in botany	12
Total required for minor teaching area	28

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for biological science or general science teaching certification, and a major teaching area of zoology is recommended to enable the student to certify to teach biology and botany.

## Chemistry

GSA 101b * with Chemistry 101b (equivalent to Chemistry 111a)	4
Chemistry 111b and Chemistry 111c	10
Chemistry electives: A minimum of 13 hours from at least two of the following: 235, 305a, 305b, 341a, 341b, 341c, 350	13
Total required for minor teaching area	27

## Economics

GSB 211a *	3
GSD 110 * <sup>1</sup>	3
Economics 214, 215, 315	10
Electives (any three): Economics 310, 330, 429, 440 and 441	12
Total required for minor teaching area	28

26 / Teacher Education Programs

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for social studies certificate.

<sup>1</sup> Prerequisite: GSD 108b \* or 114b \*

English

GSC 202,* and 201 * or 210 *	6
English 300a, 300b, 302a or 302c, 302b, 309a, 390	17
Electives from the following: GSC 301,* 313,* 317,* 318,* 321,* 335,* 345,* 365 *	4-7
Total required for minor teaching area	27-30

Foreign Languages

GSD 140a,* 140b,* 140c *	6
Spanish 201a, 201b, 201c, <sup>1</sup> 310a, 310b, 310c, 320a, 320b, 320c, 333a, 333b, 333c	24
Electives (May include 2-6 hours of Spanish 220. Spanish conversation electives should be 300- or 400-level courses.)	6
Total required for minor teaching area	30-36

Concentrations are available in French, German, Spanish, Russian, Greek, and Latin. Other concentrations follow the model presented. Students having four years of high school Spanish begin with 300-level courses.

<sup>1</sup> Prerequisites: 2 years of high school Spanish or one year of college Spanish.

Geography

GSA 330,* 331 *	6
Geography 300, 302, 304, 306, 400	19
Electives in Geography	3
Total required for minor teaching area	28

Government

GSB 385,* 390 *	6
Government 231, 232, 305, 315, 330, 360, 371, 379, 380, 420, 466, 467, 472, 495	21
Total required for minor teaching area	27

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for a social science teaching certificate.

**Health Education**

GSA 301 *	4
Health Education 300, 305, 312, 334s, 350 or 460, 471	23
Electives in Health Education	7
Total required for minor teaching area	30

**History**

GSB 101b,* 101c,* 300a,* 300b,* 300c *	17
Electives: 300- or 400-level history courses with not less than 9 hours in U.S. history and 6 hours in foreign history with at least as many 400- as 300-level courses to total	13
Total required for minor teaching area	30

**Home Economics**

Home Economics Education 309	5
Electives from the following, 25 hours:	
Clothing and Textiles 127, 131, 135, 233, 323, 327	
Food and Nutrition 105, 206, 320, 335	
Home and Family 227, 237, 332, 324, 341	25
Total required for minor teaching area	30

**Instructional Materials**

Instructional Materials 308, 403, 405, 406, 407, 417,* 420	28
Total required for minor teaching area	28

**Mathematics**

GSD 114b,* 114c *	6
Mathematics 150a, 150b, 252a	15
Electives (above 252 except 410)	12
Total required for minor teaching area	33

Students must earn a C or better for courses numbered 150 or higher to count towards the minor teaching area.

**Microbiology**

Microbiology 301 and 302	10
Electives in Microbiology	14
Total required for minor teaching area	24



28 / Teacher Education Programs

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for a biological science teaching certificate.

**Philosophy**

GSC 102,* 207,* 208,* 301,* 382,* 483 *	18
Philosophy 301 and 340	8
Electives	4
Total required for minor teaching area	30

This must be taken in conjunction with some other major teaching area. The student should consult with his adviser for appropriate combinations.

**Physical Education—Men**

GSA 301 *	4
Physical Education—Men 100A through M, <sup>1</sup> 303, 305, 350, 354, 370, 376	36
Physiology 300	4
Total required for minor teaching area	40

<sup>1</sup> Four hours of the total may be counted in the previously listed teaching methods requirements.

**Physical Education—Women**

*Secondary School Teaching*

Physical Education—Women 113, 212, 222, 224, 242, 304a, 304b, 304c, 304d, 304e, 308, <sup>1</sup> 353, 354	24
Health Education 334s	4
Electives (activity courses)	2

*Elementary School Teaching*

Physical Education—Women 113, 212, 222 or GSE 112, 113b,d, 304a, 304b, 308, <sup>1</sup> 350 or 319, 353, 354	22
Health Education 334s	4
Electives (Activity Courses)	4

*Teaching Minor (Dance)*

Physical Education—Women 212, 222, 242 or GSE 113a,b,d,e, 273, 308, <sup>1</sup> 312, 313, 374, 376, 405	23
Music 200	3
Electives	2-4
Total required for minor teaching area	30

<sup>1</sup> Four hours have been counted previously in meeting the general education methods requirements.

## Physics

Physics 206a,b,c, and 207 or 211a,b,c .....	12-15
Electives from the following: Physics 300, 301a, 305a,b, 310, or 405 .....	12
Total required for minor teaching area ....	27

The prerequisite for each course in the left hand column below is listed in the middle column below. The prerequisites for the courses in the middle column are listed in the right hand column.

<i>Physics</i>	<i>Prerequisites</i>	<i>Math Prerequisites</i>
206a,b	GSD 114c*	3 sem. hrs. H.S. Algebra
211a,b	Math 150b	Math 150a
300	Math 252b	Math 150b and Math 252a
301a	Math 305a	Math 252b
305	Math 305a	Math 252b
405	Math 305a	Math 252b

## Physiology

GSA 302 * .....	3
Physiology 315a, 315b, 315c <sup>1</sup> .....	15
Electives: (Courses in botany and zoology are recommended) .....	9
Total required for minor teaching area .....	27

It is recommended that the student complete the Illinois Office of Public Instruction's requirements for the biological science major teaching area.

<sup>1</sup> Prerequisite: GSA 201a, 201b, 201c.

## Speech

Speech 102, <sup>1</sup> 202, 205, 209, 323, <sup>1</sup> 406 .....	21-22
Theater 208 or 308, 402a .....	4-6
Electives with departmental approval ....	2-5
Total required for minor teaching area ....	30

<sup>1</sup> Prerequisite: GSC 200, GSD 103

## Technical and Industrial Education

### *Industrial Arts Teaching*

Technology 100, 101a, 101c .....	8
Industrial Technology 309a, 312a, 320a, 322a, 327a, 332a, 343a .....	24
Technical and Industrial Education 491a * ..	3
Elective .....	1
Total required for minor teaching area .....	36

**Zoology**

GSA 201a,* 201b *	(4) + 4
Zoology 102, 103, plus one lab numbered above 199	14-15
Electives to total required hours	8-9
Total required for minor teaching area	27

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for biological science or general science teaching certification, and a major teaching area in botany is recommended to enable the student to certify to teach biology and botany.





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44